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EXPERIMENTAL THERMAL CONDUCTIVITY VALUES FOR HYDROGEN, METHANE, ETHANE AND PROPANE

National Bureau of Standards U.S. Department of Commerce Boulder, Colorado 80303

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CONDUCTIVITY VALUES FOR HYDROGEN, METHANE, ETHANE AND PROPANE

H.M. Roder

Chemical Engineering Sciences Division National Engineering Laboratory National Bureau of Standards U.S. Department of Commerce Boulder, Colorado 80303

May 1984

Prepared for: NASA-Lewis Research Center Cleveland, Ohio 44135





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Experimental Thermal Conductivity Values for Hydrogen, Methane, Ethane and Propane

Hans M. Roder

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The experimental measurements of thermal conductivity as obtained in a transient hot wire apparatus for hydrogen, methane, ethane and propane are recorded.

Key words: ethane; hot wire; hydrogen; measurements; methane; propane; thermal conductivity; transient.

1. Introduction

New experimental measurements of the thermal conductivity of fluids are always of interest, expecially if the measurement is an absolute one, and if the results are as accurate as those that can be obtained from a transient hot wire apparatus. Perhaps the single drawback of a transient hot wire system is the rapid accumulation of large quantities of data. This report is the archival record of results on hydrogen, methane, ethane and propane with a minimum of text since analysis, explanation and discussion of the results are given in the references of sections 2, 3, 4, and 5.

The measurements were made with a transient hot wire thermal conductivity apparatus [1] which has been tested with nitrogen [1], helium [1] and argon [2,3]. The system has been used previously to measure the thermal conductivity surface of oxygen [4]. The temperature range of the instrument is 77 to 325 K and the pressure range is from near zero to 70 MPa.

The scheme used to measure the thermal conductivity surface of a given fluid is to conduct the measurements along isotherms. The spacing in temperature is chosen to be around 20 K resulting in a change of several percent in thermal conductivity between different isotherms. On each isotherm measurements are made at a number of different pressures. The spacing in pressure is arranged to give a spacing in density of about 1 mol/L. Finally, replicate measurements at the same cell temperature and pressure are made with three or four different power levels. The replicate measurements serve to verify the absence of convection, and, because the experimental temperatures vary with the applied power level, the measurements are actually independent of each other.

The sections for the individual fluids give the references where the results have been or will be published, the tables of data, the correlating equations in the form of computer programs which were used to adjust the thermal conductivity values to the lominal temperatures, and the equations of state used to infer densities from the measured pressures and temperatures. Recorded in the tables of data are the run and

Numbers in brackets indicate the literature references at the end of the paper.

the point numbers, the pressure, temperature and density of the fluid, the applied power, the experimental thermal conductivity, and its associated linear regression statistic STAT. For hydrogen the ortho-para composition is given as well. In the analysis of the thermal conductivity surface it is desirable to have the thermal conductivities at integral values of temperature. Therefore, each point has been adjusted at constant density to the nominal isotherm temperature by a slight shift in temperature using the correlating equations for the surface in question. Printed in the data tables are the adjusted thermal conductivities at the nominal isotherm temperature as well as the deviation between the adjusted values and the correlating surface.

2. Hydrogen Results

A total of 1645 points were measured. Normal and near normal compositions are found in Table 1, para and para-rich compositions in Table 2. Preliminary normal results are reported in [5], a summary of the para results in [6], and the analysis of the thermal conductivity surface for both normal and para including the assignment of composition in [7]. The computer programs developed for the thermal conductivity of hydrogen are shown below. The equation of state used for hydrogen is given in [8].

```
FUNCTION TCOPH2(DD,TIN,OP)
       INPUT, DENSITY MOL/L, TEMPERATURE K, OP PARA FRACTION
C
       OUTPUT, THERMAL CONDUCTIVITY OF HYDROGEN, W/M.K, 4 FEB 84
       DIMENSION TNZ(26), TPZ(26), TT(26), G(3)
       DATA(TNZ(I), I=1,26)/.0505,.0568,.0632,.0695,.0763,.0829,.0896,
          .0962,.1026,.1092,.1157,.1220,.1282,.1342,.1401,.1458,.1514,
       2 .1569,.1622,.1674,.1725,.1774,.1823,.1870,.1917,.1962/
DATA(TPZ(I),I=1,26)/.0529,.0617,.0714,.0816,.0924,.1028,.1125,
.1213,.1294,.1365,.1427,.1482,.1530,.1574,.1614,.1651,.1687,
      2 .1723,.1758,.1793,.1828,.1863,.1899,.1935,.1972,.2010/
DATA(TT(I),I=1,26)/70.,80.,90.,100.,110.,120.,130.,140.,150.,
1 160.,170.,180.,190.,200.,210.,220.,230.,240.,250.,260.,270.,
      2 280.,290.,300.,310.,320./
       DATA G/.1584312604E-02 , .3861103193E-04 , .1066433014E-06/
       D0 3 I=1,26
       IF(TIN.LT.TT(I)) GO TO 4
     3 CONTINUE
     4 CONTINUE
       TCZN=TNZ(I-1)+(TNZ(I)-TNZ(I-1))*(TIN-TT(I-1))/(TT(I)-TT(I-1))
       TCZP = TPZ(I-1) + (TPZ(I) - TPZ(I-1)) * (TIN-TT(I-1)) / (TT(I)-TT(I-1))
       OPDIFF=TCZP-TCZN
       TCZADJ = OPDIFF / 0.75*(OP - 0.25)
       FACTOR=1.0-0.028484+0.000070588*TIN
       TCZ=TCZN*FACTOR+TCZADJ+CRITH2(DD,TIN)
       TCOPH2=TCZ+G(1)*DD+(G(2)+G(3)*TIN)*(EXP(2.1*DU**0.36)-1.0)
       RETURN
       END
       FUNCTION CRITH2(RHO, TEMP)
       ADAPTED FROM 02 FOR HIGH TEMPERATURE H2
       VALID FROM 78 K UP, AMPL IS LINEAR
       DATA (TC=32.938), (RHOC=15.556)
       T=TEMP
       DEN=RHO
       IF(T.GT.77. .AND. T.LT.108.35658) GO TO 4
       CRITH2=0.
       RETURN
     4 CONTINUE
       AMPL=0.00635363-0.00005863*T
       DELT=T-TC
                                              2
```

RHOCENT=RHOC-0.008229*DELT**1.5
DELRHO=DEN-RHOCENT
X1=.138*DELRHO
CRITH2=AMPL*EXP(-X1**2)
RETURN
END

Table 1. The Thermal Conductivity of Hydrogen, Normal and Near Normal Compositions

						Exparimentai		Adj. Thermai Co	nductivity
		-0.000				Thermai		Nom. Temperatura	
Run Pt.	Prassure MPa	Temperature K	Density mol/L	para fraction	Power W/m	Conductivity W/m.K	STAT	300.0 K W/m.K	axpcaic. percent
38062	67.316	297.768	18.9805	.2500	.55030	.24302	.005	.24419	68
38063	67.317	298.415	18.9512	.2500	.78981	.24253	.004	.24336	96
38064	67.317	299.194	18.9160	. 2500	1.07232	• 24341	.002	.24383	69
38065	67.318	300.090	18.8758	•2500	1.39816	•24437	.002	•24432	41
38066 38067	67.318 64.867	300.631 297.711	18.8514	.2500 .25 0 0	1.57690 .54945	• 24440 • 24053	.002	•24407 •24173	-•46 -•72
38068	64.867	298.214	18.4787	.2500	.78817	.23852	•004	.23945	-1.63
38069	64.868	298.990	18.4442	.2500	1.07035	.24043	.002	.24096	92
38070	64.871	299.845	18.4066	.2500	1.39577	.24125	.002	.24133	69
38071	61.368	297.491	17.8033	• 2500	.55041	.23614	.005	. 23744	-1.12
38072 38073	61.368 61.368	298.203 299.058	17.7720 17.7346	.2500 .2500	.79029 1.07325	.23650 .23706	.003	•23753 •23755	-1.01 93
38074	61.368	300.016	17.6928	.2500	1.39959	.23751	.002	.23750	87
38075	57.884	297.556	17.0723	.2500	.55050	.23312	.002	.23438	99
38076	57.886	298.134	17.0478	.2500	.79029	•23381	.003	.23477	77
38077	57.886	299.143	17.0047	. 2500	1.07315	.23381	• 002	.23425	91
38078	57.886	300.119	16.9632	•2500	1.39937	• 23409	•002	• 23403	93
38079 3808 0	54.612 54.612	297.614 298.347	16.3631	.2500 .2500	.55052 .79021	.23012 .23090	.006	•23134 •23175	95 71
38081	54.613	299.210	16.2969	.2500	1.07312	.23117	.001	.23158	72
38082	54.613	300.201	16.2559	. 2500	1.39916	.23185	.002	.23175	57
38083	50.862	297.577	15.5263	.2500	.55084	•22693	.004	.22816	79
38084	50.862	298.253	15.4991	• 2500	.79046	.22803	.003	.22892	41
38085 38086	50.862 50.863	299.140 300.177	15.4634	•2500 •2500	1.07319	• 22782 • 22821	.003	•22826 •22812	63 62
38087	47.428	297.686	14.7260	• 2500	.55080	.22382	.005	.22499	76
38088	47.427	298.435	14.6965	.2500	.79098	.22420	.003	.22499	71
38089	47.428	299.335	14.6618	.2500	1.07436	.22451	.002	. 22485	71
38090	47.428	300.433	14.6193	• 2500	1.40067	.22477	•002	.22455	77
38091 38092	43.926 43.926	297.777 298.473	13.8814	.2500 .2500	.55041 .79045	.22035 .22068	.003	•22147 •22145	87 84
38092	43.926	299.408	13.8205	.2500	1.07351	•22143	.002	.22173	65
38094	43.927	300.455	13.7818	.2500	1.39957	.22223	.002	. 22200	46
38095	40.423	297.744	13.0096	.2500	.55011	.21760	.004	-21873	65
38096	40.423	298.510	12.9821	• 2500	•78964	•21795	.002	.21870	62
38097	40.423	299.421	12.9497	•2500	1.07237	.21813	•002	.21842	70 58
38098 38001	40.423	300.493 297.338	12.9118	•2500 •2500	1.39902	.21879 .21762	.002	.21854 .21895	80
38002	40.961	299.537	13.0813	.2500	1.22817	.21906	.002	.21929	52
38003	40.961	300.024	13.0639	.2500	1.39645	.21921	.002	.21920	53
38004	40.956	298.980	13.1001	•2500	1.07091	•21882	•002	.21933	53
38005	40.956	298.075	13.1327	• 2500	.78840	.21858	•003	.21954	48
38006 38007	40.955 37.588	296.934 297.362	13.1736 12.2918	.2500 .2500	•44605 •54965	•21761 •21408	.005	.21915 .21540	74 -1.03
3 80 0 8	37.588	298.200	12.2630	.2500	.78899	. 21587	.003	.21677	34
38009	37.588	299.088	12.2326	.2500	1.07152	.21608	.002	•21653	40
38010	37.588	300.273	12.1924	•2500	1.39673	.21613	•002	-21599	59
38011	34.239	297.331	11.3990	•2500	-54955	.21170	•005	.21302	72 69
38012 38013	34.239 34.239	298 • 263 299 • 1 4 5	11.3688	•2500 •2500	.78855 1.07117	•21213 •21292	.003	.21299 .21334	48
38014	34.239	300.265	11.3044	.2500	1.39663	.21348	.002	.21335	42
38015	30.257	300.410	10.2008	. 2500	1.39649	.20982	.002	.20962	52
38016	30.257	299.195	10.2367	.2500	1.07123	.20958	•002	•20998	40
38017	30.257	298.212 297.402	10.2659	.2500	.78866	•20897	.003	.20985	50 -1.10
38018 38019	30.256 27.168	297.402	10.2899 9.4062	.2500 .2500	.54934 .44597	.20741 .20547	.005	•20869 •20691	66
38020	27.168	297.861	9.3843	.2500	.66358	.20581	.004	.20686	65
38021	27.168	298.753	9.3596	.2500	. 92446	.20598	.002	•20659	75
38022	27.168	299.838	9.3297	.2500	1.22839	• 20700	•002	• 20708	47
38023	23.554	297.126	8.3184	•2500	.44591	.20143	•003	•20284	-1.12 99
3802 4 38025	23.554 23.554	297.849 298.734	8.3003 8.2782	.2500 .2500	.66296	.20199 .20309	.003	.20304 .20371	63
38026	23.554	299.842	8.2508	.2500	1.22688	.20356	.002	20364	63
38027	19.866	297.138	7.1623	.2500	.44540	•19910	.008	.20049	72
38028	19.866	297.992	7.1433	.2500	.66278	.19930	.002	.20028	80
38029	19.866	298.920	7.1230	•2500	.92347	.20008	.003	.20061	61 69
38030 38031	19.866 16.373	300.086 297.221	7.0977 6.0193	.2500 .2500	1.22702 .44611	.20042 .19494	.002	•20038 •19629	-1.37
38032	16.373	298.019	6.0043	•2500	.66450	.19658	.003	•19754	71
38033	16.373	299.112	5.9838	.2500	.92562	.19754	•003	.19797	47
38034	16.372	300.315	5.9613	.2500	1.23002	•19772	.003	•19757	64

38035	12.758	297.355	4.7862	.2500	.44657	.19324	.006	.19452	75
38036	12.758	298.273	4.7723	. 2500	.56447	19326	.004	.19410	95
38037	12.758	299.323	4.7564	.2500	92559	.19410	.003	.19443	76
38038	12.758	300.545	4.7381	. 2500	1.22979	.19515	.002	.19489	50
38039	9.260	297.425	3.5443	.2500	.44636	.18987	.006	.19111	-1.05
38040	9.260	298.322	3.5341	.2500	.66434	.19050	.004	.19131	93
	9.260	299.453	3.5212	.2500	.92532	.19185	.003	19211	49
38041		300.748	3.5066	.2500	1.22949	.19218	.003	.19182	63
38042	9.260	297.505	2.2373	2500	.44633	.18793	.006	.18913	61
38043	5.727		2.2299	.2500	.66416	.18838	.004	18911	61
38044	5.726	298.485				.18897	.003	.18914	58
38045	5.726	299.640	2.2214	• 2500	.92518		.003	.18934	47
38046	5.726	300.259	2.2169	• 2500	1.07196	.18946 .18926	.006	.19036	.06
38047	5.593	297.715	2.2229	.2500				.19030	.04
38048	5.693	298.651	2.2161	.2500	.66476	.18955	.004	.13981	21
38049	5.693	299.788	2.2078	.2500	.92586	•18971	.003		08
3 2050	5.693	300.348	2.2038	.2500	1.07272	.19022	.003	.19005	
38051	2.258	297.521	.9003	.2500	.44603	•18491	.007	.18605	79
38752	2.259	293.059	.8990	. 2500	.54952	.18500	.009	.18593	85
38053	2.258	298.540	.8976	.2500	.66375	.19539	.008	.18609	77
38054	2.258	299.115	•895€	.2500	.78887	.18565	.006	.18607	77
38055	2.258	299.740	.8937	• 2500	.92466	.18631	.005	.18643	58
									4 4.114
						Experimental		Adj. Thermai Cor	
					-	Thermai		Nom. Temperature	
Run Pt.	Pressure	Temperature	Density	para	Power	Conductivity	STAT	250.0 K	expcaic.
	мрв	k	₩Oi/L	fraction	A\u	W/m.K		W/m.K	percent
								22.003	1 00
39001	68.197	248.921	21.6909	.2500	1.01362	.22923	.003	.22987	-1.09
39002	58.200	249.852	21.6364	.2500	1.30044	.23207	.002	.23216	.03
3 9003	68.206	250.275	21.6129	.2500	1.45637	.23115	.002	• 23099	42
39004	54.709	250.364	20.8806	.2500	1.45645	.22716	.001	.22695	46
39005	64.712	249.414	20.9363	.2500	1.15140	.22849	.002	.22884	.24
39006	64.713	249.831	20.9122	. 2500	1.29928	.22680	.001	• 22690	55
39007	61.375	249.570	20.2074	.2500	1.15329	.22385	.002	.22410	16
39008	61.378	249.934	20.1872	.2500	1.30198	.22371	.002	.22375	28
39009	61.376	250.427	20.1589	.2500	1.45 928	.22439	.002	.22414	03
3 90 10	57.953	249.526	19.4446	• 2500	1.15376	. 22009	.002	.22037	12
39011	57.953	249.909	19.4231	• 2500	1.30197	.22021	•002	.22026	12
39012	57.953	250.414	19.3951	•2500	1.45931	.21959	.002	.21935	48
39013	54.237	249.528	18.5801	• 2500	1.15346	• 21 59 4	.002	.21621	13
39014	54.237	250.074	18.5502	.2500	1.30159	.21638	.002	.21634	00
3 9 0 1 5	54.237	250.546	18.5245	.2500	1.45883	• 21663	.001	.21632	.04
39016	50.961	250.569	17.7263	.2500	1.45964	.21313	.002	•21275	.08
39017	50.961	250.081	17.7576	.2500	1.30216	.21266	.002	.21261	05
39018	50.952	249.628	17.7820	.2500	1.15371	.21281	.002	.21302	.10
39719	47.248	249.234	16.8919	.2500	1.01461	.20814	.002	.20858	16
39020	47.349	249.732	16.8652	. 2500	1.15368	.20908	.003	.20923	.20
39021	47.349	250.23°	16.8400	.2500	1.30199	.20977	.002	.20964	.45
39022	42.152	249.398	15.5019	. 2500	1.01439	.20374	.002	.20408	. 4 4
39023	42.152	249.868	15.4788	.2500	1.15350	.20169	.002	.20176	66
39024	42.152	250.386	15.4533	.2500	1.30195	.20326	.002	.20305	.03
39025	40.164	249.472	14.9461	.2500	1.01442	.19934	.002	.19964	69
39026	40.164	249.954	14.9227	.2500	1.15359	.20080	.002	.20083	05
39027	40.164	250.471	14.8980	.2500	1.30186	.20111	.001	.20085	.01
39028	36.828	249.500	13.9859	.2500	1.01438	.19627	.002	.19655	43
39029	36.828	249.946	13.9654	.2500	1.15361	.19831	.002	.19834	.51
39030	36.828	250.546	13.9379	.2500	1.30174	•19677	.002	.19647	39
39031	33.386	249.614	12.9476	.2500	1.01438	.19506	.002	.19527	.80
39032	33.386	250.103	12.9264	.2500	1.15348	.19235	.002	.19229	69
39033	33.386	250.639	12.9031		1.30194	.19375	.002	.19340	08
39034	29.369	249.701	11.6779	.2500	1.01313	.18964	.002	.18981	.19
39035	29.369	250.187	11.6583		1.15231	.18981	.002	.18971	.17
39036	29.369	249.157	11.6998	.2500	.88308	.18988	.003	.19035	.43
39037	26.273	249.263	10.6714	.2500	.88483	.18565	.002	.18607	11
39038	26.271	249.794	10.6507	. 2500	1.01561	.18550	.002	.18551	32
39039	25.270	250.357	10.6295	.2500	1.15512	.18706	.002	.18687	.39
39040	22.840	249.392	9.4798	.2500	.98537	.18227	.002	.18260	06
39041	22.840	249.951	9.4607	. 2500	1.01564	.18256	.003	.16259	04
39042	22.840	250.525	9.4412	.2500	1.15503	.18265	.001	.18238	12
39043	19.322	249.657	P.1964	. 2500	.88486	.17973	.002	.17991	. 4 4
39044	19.322	250.136	8.1823	.2500	1.01501	.17995	.002	.17999	. 45
3 9 7 4 5	19.323	250.707	8.1655		1.15404		.002	.17987	. 47
39046	17.251	249.217	7.4297	.2500	.76268	.17692	.003	.17735	.16
39047	17.251	249.723	7.4157	.2500	.88382		.002	.17727	.13
39048	17.251	250.233	7.4017	.2500	1.01412		.002	.17738	.21
39049	15.213	249.202	6.6399	.2500	.76365		.003	.17504	00
39050	15.213	249.692	6.6277	.2500	.88538		.003	.17547	.26
39051	15.213	250.275	6.6132		1.01593		.003	.17539	.24
39052	13.128	249.285	5.8069	. 2500	.76382		.003	.17315	.09
39053	13.128	249.799	5.7956	.2500	.88525		.003	.17292	02
39054	13.128	250.344	5.7836	.2500	1.01583		.002	.17297	.02
39055	11.082	249.337	4.9673	. 2500	.76365		.002	.17070	17
39056	11.092	249.839	4.9578	.2500	.88507	.17079	.002	.17088	06
39057	11.082	250.448	4.9462		1.01536	.17146	.002	.17122	.16
39058	9.044	249.427	4.1071	.2500	.76360		.003	.16868	21

39059	9.044	249.972	4.0984	.2500	00511	.16958	.002	14040	2.5
					.88511			.16960	•35
39060	9.043	250.568	4.0887	• 2500	1.01545	•16926	•003	• 16896	02
39061	6.749	249.008	3.1166	•2500	.65145	•16586	.004	•16639	28
39062	6.747	249.535	3.1093	.2500	.76390	.16624	.002	.16649	21
39053	6.747	250.167	3.1016	.2500	.88518	.16713	•004	.16704	•13
39064	4.793	249.121	2.2413	• 2500	.65132	.16475	•003	•16522	•13
39065	4.792	249.652	2.2363	.2500	.76381	.16518	.003	.16537	.22
3 90 6 6	4.792	250.272	2.2308	•2500	.88538	•16476	•003	•16462	23
3 9 067	2.833	249.330	1.3409	• 2500	.65129	•16312	.004	•16348	•19
39068	2.833	249.943	1.3377	.2500	.76365	.16419	•004	.16422	•64
39069	2.832	249.584	1.3392	• 2500	.70636	.16333	.004	•16355	•23
39070	1.278	249.363	•6111	•2500	•65055	•16284	.012	•16318	.89
						Experimental		AdJ. Thermal Con	duativités.
						Thermal		Nom. Temperature	deviation
Run Pt.	Pressure	Temperature	Density	para	Power	Conductivity	STAT	200.0 K	expcalc.
	MPa	K	mol/L	fraction		W/m.K		W/m.K	percen
		•		114011011	W 7 H	W F III W IX		M / W e IX	Percen
		_							
40001	69.692	199.997	25.1397	•2500	1.02232	.22167	.001	•22168	•33
40002	68.689	200.284	25.1157	.2500	1.14618	.22142	•002	.22123	•20
40003	68.688	200.678	25.0844	.2500		.22147			
					1.27732		•001	.22101	•19
40004	64.982	199.822	24.3445	•2500	1.02239	.21514	.001	•21626	•10
40005	54.984	200.184	24.3156	.2500	1.14684	.21567	.001	.21555	16
40005	64.984	200.631	24.2816		1.27824		.001	.21590	•10
40007	61.616	199.949	23.5697	.2500	1.02309	•21085	.002	•21088	28
40008	61.617	200.360	23.5381	.2500	1.14706	.21149	.002	.21125	02
40009	61.617	200.771	23.5063	.2500	1.27824	.21222	.002	.21171	.28
40010	58.091	200.071	22.7245	• 2500	1.02327	.20742	.002	•20737	•32
40011	58.091	200.446	22.6957	• 2500	1.14740	.20762	.002	.20733	.38
40012	58.092	200.811	22.6681	.2500	1.27873		.002	.20700	.29
						.20753			
40013	54.613	200.117	21.8588	.2500	1.02287	• 20246	.001	•20238	.18
40014	54.613	200.523	21.8280	•2500	1.14669	.20246	.001	•20212	•12
40015	54.614	200.891	21.8004	.2500	1.27856	.20296	.001	.20238	•32
40016	51.083	200.217	20.9342	.2500	1.02358	.19854	.001	•19850	•62
40017	51.085	200.646	20.9028	.2500	1.14747	.19875	.001	•19833	•62
40018	51.087	201.034	20.8746	.2500	1.27892	.19834	.001	.19767	•36
40019	47.666	200.290	19.9974	• 2500	1.02318	•19386	•002	•19367	•52
40020	47.666	200.710	19.9670	•2500	1.14727	.19427	.001	.19381	•66
40021	47.668	201.069	19.9412	.2500	1.27872	.19480	.001	.19411	.88
	44.034		18.9673	.2500			.001	.18927	.74
40022		200.136			1.02235				
40023	44.036	200.558	18.9379	•2500	1.14635	.18933	.001	.18897	•65
40024	44.037	201.025	18.9051	• 2500	1.27756	.18956	.001	.18891	•69
40025	40.646	199.784	17.9683	.2500	.90496	.18455	.002	.18469	.66
40026	40.647	200.181	17.9409	.2500	1.02178	.18456	.002	18445	•59
40027	40.647	200.650	17.9086	.2500	1.14565	.18512	.001	•18471	.81
40029	37.112	200.291	16.8074	.2500	1.02147		.007	•17966	.57
40031	33.560	199.928	15.6336	.2500	.90463	•17450	.003	•17455	•30
40033	33.560	200.757	15.5808	.2500	1.14535	.17616	.003	.17569	1.06
40034	30.078	199.904	14.3914	. 2500	.90530	.17072	.002	•17078	. 78
40035	30.077	200.344	14.3644	•2500	1.02218	•17064	•002	•17043	•63
40036	30.076	200.895	14.3308	• 2500	1.14629	•17145	•002	.17090	• 97
40037	26.575	199.751	13.0738	.2500	.79580	.16571	.002	.16586	.58
40038	26.575	200.145	13.0511	• 2500	.90524	•16607	.002	•16598	•69
40039	26.575	200.651	13.0224	• 2500	1.02239	.16664	.002	.16624	• 90
40040	22.879	199.858	11.5790	.2500	.79588	.16059	.002	.16068	•35
40041	22.879	200.288	11.5566	.2500	.90562	•16106	.001	•16088	•52
40042	22.879	200.740	11.5333	.2500	1.02265	.16201	•001	.16156	•98
40043	19.483	199.966	10.1205	.2500	.79602	.15699	.001	•15701	•79
40044	19.483	200.421	10.0993	.2500	.90567		.001	.15666	.61
40045	19.483	200.956	10.0746	• 2500	1.02286		.002	•15736	1.10
40046	17.235	200.156	9.1031	.2500	.79726	.15421	.002	.15412	•78
40047	17.236	200.641	9.0829	.2500	.90748		.002	.15412	.82
40048	17.236	199.592	9.1275	• 2500	.69464	• 15 378	.002	• 15403	•68
40049	15.172	199.644	8.1624	.2500	.69481	•15113	.002	.15135	•63
40050	15.172	200.109	8.1445	.2500	.79769		.002	.15138	.69
40051	15.172	200.587	8.1261	.2500	.90781	•15196	•002	•15161	.87
40052	13.207	199.661	7.2134	.2500	.69490	.14845	.002	.14866	•47
40053	13.207	200.243	7.1933	. 2500	.79756	•14911	.002	.14896	•71
							.002	.14897	.75
40054	13.208	200.781	7.1751	.2500	•90762	.14944			
40055	11.114	199.898	6.1609	• 2500	.69505	.14641	•002	•14647	•74
40056	11.114	200.370	6.1468	.2500	.79784	.14675	.002	.14653	.81
40057	11.114	199.387	6.1762		59924	•14620	.002	.14657	.79
				.2500					
40058	9.000	199.540	5.0789	.2500	.59936	.14321	.003	.14349	.44
40059	9.000	199.950	5.0683	.2500	.69505	.14399	.002	.14402	.82
							.002		.61
40060	9.000	200.528	5.0540	• 2500	•79790	.14399		•14368	
40061	6.801	199.593	3.9004	.2500	.59941	.14044	•002	•14069	•32
40062	6.801	200.109	3.8904	.2500	.69510	.14109	•002	•14103	•57
40063	6.800	200.734	3.8781	.2500	.79816	.14153	.002	.14109	.64
40064	4.840	199.729	2.8144	• 2500	•59967	.13810	.002	.13826	•24
40065	4.840	200.328	2.8061	.2500	.69528	.13884	.002	.13865	•53
40066	4.840	200.943	2.7976	.2500	.79832	.13907	.002	•13851	.44
							.003		.27
40067	2.771	199.535	1.6372	.2500	.51119	.13563		•13591	
40068	2.771	200.034	1.6331	.2500	•59970	.13605	•003	•13603	•36
40069	2.770	200.606	1.6281	.2500	.69563	.13691	.002	•13655	•75
10007	20110	2001000	1.0201		.07503	12072	0002	123077	.,,

						Experimental		Adj. Thermal Con	
Run Pt.	Pressure	Temperature	Dansity	para	Power	Thermal Conductivity	STAT	Nom. Temperature 175.0 K	deviation expcaic.
Kull PC.	MPa	K	nol/L	fraction	W/m	W/m.K	•	W/m+K	percent
41001	68.280	173.727	27.3095	. 2500	.87423	.21719	.002	.21813	.34
41001 41002	68.271	174.002	27.2817	.2500	98033	.21704	.002	.21777	.27
41003	58.267	174.232	27.2594	.2501	1.09242	.21722	.002	.21778	.34
41004	68.262	174.685	27.2162	.2501	1.21069	. 21612	.001	.21635	18
41005	64.900	174.085	26.5262	.2502	.97983	.21166	.001	.21233 .21260	•07 •29
41006 41007	64.903 64.904	174.388 174.807	26.4986 26.4599	.2502 .2503	1.09201	.21216 .21206	.002	•21220	• 22
41008	61.485	174.165	25.7274	.2506	.97969	.20616	.002	.20676	15
41009	51.486	174.402	25.7056	. 2506	1.09201	.20702	.002	.20745	.25
41010	61.485	174.775	25.6710	.2506	1.21007	.20656	.002	.20672	00
41011	57.521	174.194	24.7598	• 2509	.97971	•19986 •20087	.002	.20043 .20123	37 .11
41012 41013	57.521 57.521	174.499 174.964	24.7316 24.5891	.2509 .2509	1.09196	.20101	.001	.20104	•14
41014	54.101	174.296	23.8738	.2510	.97961	. 19579	.002	19629	.13
41015	54.103	174.682	23.8394	.2510	1.09202	.19695	.002	•19717	.68
41016	54.106	175.083	23.8037	. 2511	1.20996	•19576	.001	.19570	.03
41017	50.803	174.317	22.9842	.2512	.97969	.19134	.002	.19182	•37
41018 41019	50.805 50.808	174.782 175.128	22.9428	.2512 .2512	1.20989	.19145 .19173	.002	.19160 .19164	•38 •49
41020	47.167	174.035	21.9770	.2514	.87467	.18548	.001	.18615	.20
41021	47.169	174.382	21.9465	. 2514	.98122	.18563	.001	.18606	• 23
41022	47.172	174.812	21.9092	.2514	1.09421	.18656	.001	.18669	•67
41023	43.851	174.201	20.9667	.2516	.87509	.18065	.002	.18120	•26
41024	43.854	174.485	20.9426	.2516 .2516	.98101	.18118 .18115	.002	.18153 .18124	.51 .44
41025 41026	43.855 40.172	174.872 174.298	19.7875	.2517	.87624	.17525	.002	.17573	.33
41027	40.174	174.646	19.7582	.2518	.98326	.17544	.001	.17568	.38
41028	40.174	175.096	19.7197	.2518	1.09618	.17586	.001	.17579	. 54
41029	36.927	174.375	18.6843	.2519	.87655	.17083	.002	•17125	• 5 9
41030	36.929	174.787	18.6504	.2519	.98334	.17116	.002	.17130	.71 .71
41031 41032	36.930 32.668	175.267 174.133	18.6109	.2520 .2576	.77613	•17132 •16602	.001	•17114 •16660	1.50
41033	32.669	174.570	17.1278	.2576	.87653	.16613	.002	.16642	1.48
41034	32.669	174.955	17.0971	. 2576	.98305	.15624	.002	.16627	1.47
41035	29.963	174.243	16.1085	. 2578	.77579	.16072	.002	•16122	•76
41036	29.963	174.559	16.0841	• 2578	.87603	.16060	.002	.16089	.62
41037 41038	29.964 26.454	175.032 174.253	16.0480	.2578 .2579	.98297 .77575	•16112 •15547	.001	.16110 .15596	.83 .79
41039	26.455	174.697	14.6356	2579	.87619	.15602	.002	.15622	1.03
41040	26.455	175.130	14.6044	.2580	.98281	.15623	.002	.15615	1.05
41041	22.841	174.348	13.0698	.2581	.77620	.15013	.002	.15055	. 82
41042	22.842	174.824	13.0385	. 2581	.87671	.15032	.002	•15043	.81
41043 41044	22.842 19.491	173.882 174.194	13.1019	.2582 .2583	.68174	•14976 •14486	.002	•15049 •14538	•71 •67
41045	19.491	174.609	11.4726	.2583	.77658	.14531	.002	.14556	. 85
41046	19.491	175.071	11.4446	.2583	.87708	.14560	.002	•14555	.90
41047	17.250	174.282	10.3730	. 25 85	.68311	.14134	.002	.14180	.49
41048	17.250	174.741	10.3473	.2585	•77766	.14190	.002	.14207	•72
41049 41050	17.250 15.124	175.169 174.340	9.2612	•2585 •2586	.87878	•14211 •13862	.002	•14200 •13904	.73 .73
41051	15.124	174.734	9.2412	.2586	.77798	.13837	.002	.13854	.41
41052	15.125	175.289	9.2134	.2587	.87905	.13934	.002	.13916	.90
41053	13.057	174.471	8.1318	.2589	.68424	•13550	.002	.13584	.57
41054	13.057	174.990	8.1083	• 2589	•77891	.13573	.002	.13574	.54
41055 41056	13.057 11.071	175.531. 174.641	8.0841 7.0040	.2590 .2591	.87995 .68466	•13593 •13294	.002	.13559 .13317	.48
41057	11.071	175.073	6.9870	.2591	.77931	.13337	.002	.13332	.84
41058	11.071	174.112	7.0249	.2591	.59593	.13273	.003	.13329	.75
41059	9.033	174.295	5.8226	.2593	.59609	.12952	.002	.13007	.49
41060	9.033	174.732	5.8082	. 2593	-68459	•13012	.002	•13029	•68
41061 41062	9.033 6.920	175.250 174.443	5.7911 4.5327	.2593 .2594	.77948	.13048 .12708	.002	.13032 .12743	.74 .71
41063	6.920	174.970	4.5188	.2595	.68480	.12694	.002	.12696	•36
41064	6.920	175.500	4.5052	. 2595	.77970	.12755	.002	.12723	.60
41065	4.882	173.985	3.2570	. 2596	.51413	.12382	.003	-12446	.53
41066	4.882	174.558	3.2458	. 25 96	.59652	.12420	.002	.12448	• 56
41067 41068	4.882	175.129 174.413	3.2352 1.8533	• 2596 • 2598	.68526 .51455	•12467 •12061	.002	.12459	.67
41069	2.740	174.834	1.8486	.2598	.59699	.12147	.002	.12098 .12157	.03 .52
41070	2.739	175.487	1.8410	.2598	.68593	.12162	.002	.12131	.32
41071	1.399	174.073	.9572	.2599	.43832	.11843	.007	.11901	16
41072	1.399	174.548	.9542	.2600	.51447		-004	.11898	18
41073	1.398	175.156	.9504	. 2600	.59707	.11947	.004	.11937	.16

						Experimental		Adj. Thermal Con	nductivity
						Thermal		Nom. Temperature	
Run Pt.	Pressure	Temperature	Density	Para	Power	Conductivity	STAT	150.0 K	expcaic.
	MPe	К	ποΙ/L	fraction	W/m	W/m.K		W/m•K	percent
42001	69.746	147.874	30.2675	.2500	.81224	.21817	•002	.21982	•16
42002	69.744	148.179	30.2331	.2501	.90545	.21814	•002	.21955	.15
42003	69.744	148.277	30.2223	. 2502	1.00369	.21846	.001	.21979	•30
42004	64.986	147.912	29.2164	.2506	.81198	.21032	.002	21191	•10
42005	64.988	148.394	29.1631	• 2507	.90561	.21067	.001	.21189	.28
42006	64.990	148.461	29.1560	•2507	1.00371	.21047	.001	.21164	.18
42007	61.347	147.978	28.3618	.2511	.81240	.20484	.002	.20636	•34
42008	61.347	148.216	28.3352	•2512	•90561	• 20479	.002	.20613	∤31
42009	61.346	148.617	28.2904	.2512	1.00414	•20516	•002	• 20620	•49
42012	57.952	148.657	27.4548	. 2522	1.00571	•19946	•002	.20046	•44
42016	50.845	148.244	25.6136	.2533	.81363	.18741 .18781	.002	.18869	•35
42017 42018	50.848 50.851	148.473 148.917	25.5891 25.5407	.2533 .2534	.90710		.003	•18892 •18683	•55 -•41
42019	47.463	148.370	24,6207	.2538	.81368	.18604 .18168	.002	.18285	.34
42020	47.466	148.628	24.5933	.2538	.90713	.18024	•002	.18123	46
42021	47.469	148.930	24.5607	.2539	1.00598	.18277	.002	.18354	•90
42022	43.992	148.424	23.5471	.2543	.81462	.17637	.002	.17749	.68
42023	43.995	148.759	23.5115	.2544	.90871	.17447	.003	.17535	42
42024	43.997	149.173	23.4667	. 2545	1.00809	.17676	.001	.17735	.84
42025	40.499	148.614	22.3797	.2549	.81538	.17035	.002	•17132	.67
42026	40.502	148.903	22.3492	.2549	. 90906	•16 993	.001	•17070	•39
42027	40.505	149.222	22.3158	•2550	1.00840	.16981	.001	•17036	•29
42028	36.919	148.585	21.1223	. 2555	.81534	.16403	.001	•16501	•61
42029	36.922	148.962	21.0831	.2555	.90931	.16407	.001	•16479	•58
42030	36.925	149.372	21.0405	•2556	1.00892	.16389	.001	•16433	•42
42031	33.442	148.807	19.7814	• 2560	.81571	•15788	.001	.15870	•53
42032 42033	33.445 33.447	149.219 149.476	19.7396 19.7137	• 2561	.90994	.15802	.001	•15856 15750	•56
42037	29.856	149.029	18.2912	•2562 •2746	.81697	•15714 •15317	.004	•15750 •15383	04 1.10
42038	29.857	148.672	18.3276	.2746	.72797	.15181	.002	.15272	.28
42039	29.858	149.394	18.2551	.2747	.91095	.15374	.002	.15415	1.40
42040	26.414	148.766	16.7905	.2752	.72754	.14673	.002	.14756	.92
42041	26.414	149.099	16.7586	.2753	.81630	.14613	.002	.14674	•45
42042	26.415	149.498	16.7206	. 27.53	.91059	.14592	.002	.14626	•22
42043	22.870	148.853	15.0746	.2758	.72882	•13961	.002	.14038	•31
42044	22.871	149.261	15.0384	.2758	.81817	•14059	.002	.14108	• 90
42045	22.872	149.692	14.9999	.2759	.91300	•14018	• 002	•14039	• 50
42046	19.390	149.067	13.2308	.2763	.72952	.13417	•002	.13479	•75
42047	19.391	149.542	13.1924	.2763	.81891	.13404	•002	•13434	.51
42048 42049	19.392 17.298	148.644 148.802	13.2670	•2764 •2769	.64532 .64558	.13430 .13039	.001	•13520 •13118	•96 •74
42050	17.298	149.190	12.0479	.2769	.72948	.12975	.002	•13028	.12
42051	17.299	149.615	12.0154	.2770	.81888	.13129	•002	•13154	1.15
42052	15.145	148.865	10.8000	.2774	.64560	.12743	.002	.12818	1.33
42053	15.145	149.333	10.7670	.2775	.72972	.12743	.003	.12787	1.16
42054	15.145	149.666	10.7439	.2775	.81893	.12577	.003	.12599	26
42055	13.127	149.082	9.5332	.2780	.64598	.12303	.002	.12363	•52
42056	13.128	149.589	9.5016	.2780	.73006	.12300	.002	.12327	.29
42057	13.129	149.752	9.4915	.2781	.81894	.12314	.005	.12330	•34
42058	11.131	148.811	8.2510	.2792	.56792	-11940	•002	•12017	•40
42059	11.131	149.184	9.2302	•2793	•64687	•12043	.002	•12096	1.09
42060	11.131	149.609	8.2067	.2794	.73122	.12026	.002	.12051	•77
42061	9.048 9.049	148.907 149.358	6.8295 6.8087	.2798	.56830 .64732		.003	•11664 •11676	•37 •51
42062 42063	9.049	149.754	6.7905	•2799 •2799	.73159	•11634 •11840	.010	.11856	2.05
42064	6.836	148.622	5.2673	.2803	.49489	.11272	.003	.11361	.87
42066	6.836	149.633	5.2307	. 2804	.64795	.11276	.003	•11300	•40
42067	4.815	148.736	3.7663	.2809	.49519	.10847	.002	.10929	10
42068	4.814	149.215	3.7537	.2809	.56918	.10899	.002	.10950	.12
42069	4.814	149.702	3.7410	.2810	.64836	.10930	.005	.10949	•14
42070	2.794	148.610	2.2198	.2814	.42708	.10570	.003	•10660	•33
42071	2.793	149.078	2.2121	.2814	.49574	•10555	.002	.10614	08
42072	2.793	149.641	2.2034	.2815	.56993	.10583	•002	.10606	15
						Euganlasah.t		Add Theres Co	aduat Lultu
						Experimental Thermal		Adj. Thermal Co.	
Run Pt.	Pressure	Temperature	Density	para	Power		STAT		expcalc.
KUN FL.	MPa	K	moi/L	fraction		W/m.K	JIAI	W/m.K	percent
	, a	.,	,017L	.,	47 FIL	47 III 6 IX		WAS MILE IN	F 31 0 0 11 C
43001	67.854	124.136	32.7359	.2501	.89157	.21885	.001	.21957	.23
43002	67.850	124.499	32.6876	.2502	.97971	.21829	.001	.21871	•02
43003	67.845	124.771	32.6509	.2504	1.07174	.21821	.001	.21840	.02
43004	61.906	124.286	31.3874	.2514	.89144	.20791	•002	.20849	•10
43005	61.909	124.453	31.3660	.2516	.97894	.20765	.001	.20810	01
43006	61.911	124.884	31.3093	.2517	1.07147	.20846	.001	.20855	•42
43007	56.209	124.326	29.9935	• 2529	.89167	•19718	•002	•19772	09
43008	56.214	124.668	29.9488	•2531	.97980	.19773	•001	•19800 •19772	•21 -•21
43009 43010	56.219 51.045	124.117 124.491	30.0242 28.5946	.2532 .2544	.80756 .89323	.19701 .18792	.001	.18832	•07
43010	71047	10.40427	2007740	*6744	007363	110146	.001	110035	

43011									
	51.046	124.772	28.5568	.2546	.98144	.18774	.001	.18792	01
					.80869	,	.002	.18853	03
43012	51.048	124.058	28.6540	.2548		• 18779			
43013	46.412	124.292	27.2721	. 2565	.81084		•002	•17911	29
43014	46.414	124.659	27.2224	• 2567	.89538	.18042	.002	.18068	•76
43015	46.415	124.975	27.1798	.2569	.98378	.18002	.002	.18004	•55
43016	42.165	124.419	25.9038	. 2582	.81130		.001	.17057	45
		124.802					.001	.17087	10
43017	42.168		25.8525	.2583	89590				
43018	42.171	125.090	25.8141	. 2584	.98421		.001	•17111	•17
43019	38.304	124.660	24.5313	• 2595	.81186	.16451	.001	.16476	•71
43020	38.309	124.875	24.5035	. 2596	.89589	. 16417	.001	.16426	•50
43021	38.312	125.300	24.4464	.2597	.98476		.001	.16364	.31
		124.340	24.5788	2598	.73091	.16342	.001	.16391	.03
43022	38.314								
43023	34.523	124.448	23.1259	. 2609	.73147		.001	.15638	•12
43024	34.527	124.696	23.0936	.2609	.81181	•15686	.001	.15708	.67
43025	34.529	125.060	23.0451	.2610	.89658	.15650	.001	•15646	.43
43026	31.151	124.262	21.7525	.2620	.65626	.14864	.002	.14918	19
43027	31.155	124.534	21.7170	.2621	.73217		.001	.14973	.29
						15011		15022	.75
43028	31.157	124.855	21.6747	.2622	.81271		.002		
43029	28.273	124.374	20.4390	.2632	.65666		.002	•14389	•31
43030	28.275	124.719	20.3943	• 2633	.73280	•14429	.002	•14449	.86
43031	28.277	125.103	20.3446	.2634	.81371	.14431	.001	.14424	.84
43032	25.334	124.602	18.9707	.2957	.65879	.13813	.002	•13842	.25
43033	25.334	124.918	18.9298	. 2958	.73463	.13867	.002	.13873	.60
43034	25.334	125.346	18.8746	.2959	.81547	•13886	.001	.13861	•67
43035	22.924	124.735	17.6784	.2970	.65829		.002	.13374	.61
43036	22.925	125.115	17.6313	.2971	.73483	.13365	.002	.13357	•61
43037	22.926	125.521	17.5812	.2971	.81587	.13272	.002	.13234	16
43038	20.560	124.469	16.3663	.2983	.58631		.002	.12874	.55
43039	20.561	124.816	16.3250	.2983	.65840	.12734	.002	.12747	33
43040	20.563	125.203	16.2793	.2984	.73489		.002	•12643	-1.02
43041	18.328	124.635	14.9826	• 2995	.58678		•002	•12315	05
43042	18.329	124.944	14.9476	• 2996	.65884	.12285	.002	.12289	17
43043	18.330	125.301	14.9080	.2997	.73527	.12347	.002	.12326	.24
43044	16.199	124.351	13.6211	.3007	.51924	.11783	.002	.11829	40
43045	16.200	124.741	13.5798	.3008	.58714	.11887	.002	.11905	.35
43046	16.201	125.141	13.5378	.3008	.65947		.002	•11912	•52
43047	14.175	124.516	12.1915	.3021	•51964	• 11 402	.002	•11436	04
43048	14.175	124.865	12.1576	.3022	.58758	.11462	.002	•11471	•35
43049	14.176	125.305	1.2.1145	.3023	.66008	.11483	.002	.11462	•37
43050	12.412	124.228	10.9157	.3035	. 45635	.10961	.003	.11015	56
43051	12.412	124.610	10.8815	.3036	.52006		.002	.11121	.49
43052	12.412	124.988	10.8479	.3037	.58809		.002	.10997	56
43053	10.741	124.418	9.6014	•3048	.45687				
						.10713	.003	.10754	.29
43054	10.741	124.851	9.5666	.3048	.52072		.002	.10766	. 49
43056	8.986	124.479	8.1693	.3059	•45710		.002	•10385	· 25
43057	8.986	124.970	8.1357	.3060	•52117	.10346	.001	.10348	03
43058	8.987	125.448	8.1033	.3060	.58959	.10324	.002	.10293	49
43059	7.335	124.702	6.7556	.3070	.45770	.09979	.002	.10000	22
43060	7.338	125.055	6.7384	.3071	.52137		.001	.10021	.03
43061	7.338	125.553	6.7101	.3072	.59007				
						.10087	.001	.10049	•37
43062	5.871	125.067	5.4557	.3081	•45909	•09703	•002	.09698	31
43063	5.871	125.384	5.4407	.3082	.52312		.002	.09716	10
43064	5.871	124.408	5.4860	.3083	.39878	.09676	.002	.09717	20
43065	4.292	124.624	4.0492	.3093	20023				
43066	4.292				* 3 4 4 3 1	.09358	.002	• 09384	48
43067		125.070			.39931	.09358	•002	.09384 .09408	48 18
		125.070 125.562	4.0336	.3094	.45933	.09413	.002	.09408	18
	4.292	125.562	4.0336 4.0170	.3094 .3094	.45933 .52366	.09413 .09474	.002	.09408 .09435	18 .14
43068	4.292	125.562 124.360	4.0336 4.0170 2.7701	.3094 .3094 .3103	.45933 .52366 .34402	.09413 .09474 .09071	.002 .001 .003	.09408 .09435 .09115	18 .14 59
43068 43069	4.292 2.905 2.904	125.562 124.360 124.821	4.0336 4.0170 2.7701 2.7587	.3094 .3094 .3103 .3104	.45933 .52366 .34402 .39984	.09413 .09474 .09071 .09136	.002 .001 .003 .002	.09408 .09435 .09115 .09148	18 .14 59 20
43068 43069 43070	4.292 2.905 2.904 2.904	125.562 124.360 124.821 125.357	4.0336 4.0170 2.7701 2.7587 2.7461	.3094 .3094 .3103 .3104 .3105	.45933 .52366 .34402 .39984 .46000	.09413 .09474 .09071 .09136 .09170	.002 .001 .003 .002	.09408 .09435 .09115 .09148 .09145	18 .14 59 20
43068 43069 43070 43071	4.292 2.905 2.904 2.904 1.456	125.562 124.360 124.821	4.0336 4.0170 2.7701 2.7587	.3094 .3094 .3103 .3104	.45933 .52366 .34402 .39984	.09413 .09474 .09071 .09136 .09170	.002 .001 .003 .002	.09408 .09435 .09115 .09148	18 .14 59 20
43068 43069 43070	4.292 2.905 2.904 2.904	125.562 124.360 124.821 125.357	4.0336 4.0170 2.7701 2.7587 2.7461 1.3950	.3094 .3094 .3103 .3104 .3105	.45933 .52366 .34402 .39984 .46000	.09413 .09474 .09071 .09136 .09170 .08800	.002 .001 .003 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821	18 .14 59 20 21 91
43068 43069 43070 43071 43072	4.292 2.905 2.904 2.904 1.456 1.455	125.562 124.360 124.821 125.357 124.689 125.190	4.0336 4.0170 2.7701 2.7587 2.7461 1.3950 1.3886	.3094 .3094 .3103 .3104 .3105 .3114	.45933 .52366 .34402 .39984 .46000 .34477	.09413 .09474 .09071 .09136 .09170 .08800 .08828	.002 .001 .003 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821	18 .14 59 20 21 91
43068 43069 43070 43071	4.292 2.905 2.904 2.904 1.456	125.562 124.360 124.821 125.357 124.689	4.0336 4.0170 2.7701 2.7587 2.7461 1.3950	.3094 .3094 .3103 .3104 .3105	.45933 .52366 .34402 .39984 .46000	.09413 .09474 .09071 .09136 .09170 .08800 .08828	.002 .001 .003 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821	18 .14 59 20 21 91
43068 43069 43070 43071 43072	4.292 2.905 2.904 2.904 1.456 1.455	125.562 124.360 124.821 125.357 124.689 125.190	4.0336 4.0170 2.7701 2.7587 2.7461 1.3950 1.3886	.3094 .3094 .3103 .3104 .3105 .3114	.45933 .52366 .34402 .39984 .46000 .34477	.09413 .09474 .09071 .09136 .09170 .08800 .08828	.002 .001 .003 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08815	18 .14 59 20 21 91 98
43068 43069 43070 43071 43072	4.292 2.905 2.904 2.904 1.456 1.455	125.562 124.360 124.821 125.357 124.689 125.190	4.0336 4.0170 2.7701 2.7587 2.7461 1.3950 1.3886	.3094 .3094 .3103 .3104 .3105 .3114	.45933 .52366 .34402 .39984 .46000 .34477	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870	.002 .001 .003 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817	18 .14 59 20 21 91 98 94
43068 43069 43070 43071 43072 43073	4.292 2.905 2.904 2.904 1.456 1.455 1.455	125.562 124.360 124.821 125.357 124.689 125.190 125.771	4.0336 4.0170 2.7701 2.7587 2.7461 1.3950 1.3886 1.3817	.3094 .3094 .3103 .3104 .3105 .3114 .3115	.45933 .52366 .34402 .39984 .46000 .34477 .40070	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental	.002 .001 .003 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08815 .08817	18 .14 59 20 21 91 98 94
43068 43069 43070 43071 43072	4.292 2.905 2.904 2.904 1.456 1.455 1.455	125.562 124.360 124.821 125.357 124.689 125.190 125.771	4.0336 4.0170 2.7701 2.7587 2.7461 1.3950 1.3886 1.3817	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116	.45933 .52366 .34402 .3984 .46000 .34477 .40070 .46115	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermai	.002 .001 .003 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08815 .08817 Adj. Therma: Cor Nom. Temperature	18 .14592021919894 nductivity deviation expcalc.
43068 43069 43070 43071 43072 43073	4.292 2.905 2.904 2.904 1.456 1.455 1.455	125.562 124.360 124.821 125.357 124.689 125.190 125.771	4.0336 4.0170 2.7701 2.7587 2.7461 1.3950 1.3886 1.3817	.3094 .3094 .3103 .3104 .3105 .3114 .3115	.45933 .52366 .34402 .39984 .46000 .34477 .40070	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental	.002 .001 .003 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08815 .08817	18 .14 59 20 21 91 98 94
43068 43069 43070 43071 43072 43073	4.292 2.905 2.904 2.904 1.456 1.455 1.455	125.562 124.360 124.821 125.357 124.689 125.190 125.771	4.0336 4.0170 2.7701 2.7587 2.7461 1.3950 1.3886 1.3817	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K	.002 .001 .003 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08815 .08817 Adj. Therma: Cor Nom. Temperature	18 .14592021919894 nductivity deviation expcalc.
43068 43069 43070 43071 43072 43073	4.292 2.905 2.904 2.904 1.456 1.455 1.455	125.562 124.360 124.821 125.357 124.689 125.190 125.771	4.0336 4.0170 2.7701 2.7587 2.7461 1.3950 1.3886 1.3817	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116	.45933 .52366 .34402 .3984 .46000 .34477 .40070 .46115	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K	.002 .001 .003 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08815 .08817 Adj. Therma: Cor Nom. Temperature	18 .14592021919894 nductivity deviation expcalc.
43068 43069 43070 43071 43072 43073	4.292 2.905 2.904 2.904 1.456 1.455 1.455	125.562 124.360 124.821 125.357 124.689 125.190 125.771	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density mol/L	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K	.002 .001 .003 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Adj. Therma? Cor Nom. Temperature 100.0 K W/m.K	18 .14592021919894 deviation expcaic. percent11
43068 43069 43070 43071 43072 43073 Run Pt.	4.292 2.905 2.904 2.904 1.456 1.455 1.455 Pressure MPa 68.096 68.094	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116	.45933 .52366 .34402 .3984 .46000 .34477 .40070 .46115	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K	.002 .001 .003 .002 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Adj. Therma: Cor Nom. Temperature 100.0 K W/m.K	18 .14592021919894 nductivity deviation expcalc. percent1142
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003	4.292 2.905 2.904 2.904 1.456 1.455 1.455 Pressure MPa 68.096 68.094 68.093	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K	4.0336 4.0170 2.7701 2.7787 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115	.09413 .09474 .09971 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836	.002 .001 .003 .002 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Ad J. Therma Cor Nom. Temperature 100.0 K W/m.K	18 .14592021919894 nductivity deviation exp-calc. percent114235
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004	4.292 2.905 2.904 1.456 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.43915 34.9060	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115 POWER W/m .79090 .86164 .93621 .79212	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527	.002 .001 .003 .002 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Adj. Therma: Cor Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628	18 .14592021919894 nductivity deviation expcalc. percent11423510
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005	4.292 2.905 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010 61.017	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.9060 34.8949	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524 .2526	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21448	.002 .001 .003 .002 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Adj. Therma: Cor Nom. Temperature 100.0 K W/m.K	18 .14592021919894 deviation expcaic. percent1142351046
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005 44005	4.292 2.905 2.904 2.904 1.456 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010 61.017 61.021	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.775 98.854	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.9060 34.8949 34.8568	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524 .2526 .2529	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271 .93800	.09413 .09474 .099474 .099136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21548	.002 .001 .003 .002 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Adj. Therma: Cor Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21542 .21559	18 .14592021919894 deviation expcalc. percent114235104622
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005 44005 44006 44007	4.292 2.905 2.904 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010 61.017 61.021 54.798	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.776 98.854 99.101 98.703	4.0336 4.0170 2.7701 2.7787 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.9060 34.8956 33.4539	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524 .2526 .2529 .2544	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173	.09413 .09474 .09971 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21448 .21485 .20222	.002 .001 .003 .002 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Adj. Therma: Cor Nom. Temperature 100.0 K W/m.K	18 .14592021919894 deviation expcaic. percent1142351046
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005 44005	4.292 2.905 2.904 2.904 1.456 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010 61.017 61.021	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.775 98.854	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.9060 34.8949 34.8568	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524 .2526 .2529	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271 .93800	.09413 .09474 .09971 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21448 .21485 .20222	.002 .001 .003 .002 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Adj. Therma: Cor Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21542 .21559	18 .14592021919894 deviation expcalc. percent114235104622
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005 44005 44006 44007	4.292 2.905 2.904 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010 61.017 61.021 54.798	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.776 98.854 99.101 98.703 99.081	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density moi/L 36.4360 36.4207 36.3915 34.9060 34.8949 34.8568 33.4539 33.3943	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 .3116 .2502 .2504 .2507 .2524 .2526 .2529 .2544 .2547	.45933 .52366 .34984 .46000 .34477 .40070 .46115 POWER W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173 .86444	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21448 .21485 .20222 .20255	.002 .001 .003 .002 .002 .002 .002 .002 .001 .001 .001	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Ad J. Therma Con Nom. Temperature 100.0 K W/m.K .23024 .22940 .22940 .22929 .21628 .21552 .21559 .20326 .20329	18 .14592021919894 nductivity deviation expcalc. percent1142351046224416
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005 44006 44007 44008 44009	4.292 2.905 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.094 68.094 68.093 61.010 61.017 61.021 54.798 54.808 54.815	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.776 98.854 99.101 98.773 99.081	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density moi/L 36.4360 36.4207 36.3915 34.9060 34.8949 34.8568 33.4539 33.3689	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524 .2526 .2529 .2544 .2547 .2547	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173 .86444 .93905	.09413 .09474 .09971 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22831 .22836 .21527 .21448 .21485 .20222 .20255 .20251	.002 .001 .003 .002 .002 .002 .002 .002 .001 .001 .001	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Adj. Therma: Con Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21559 .20326 .20329 .20311	18 .14592021919894 nductivity deviation expcalc. percent114235104622441817
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44005 44006 44007 44008 44009 44009 44010	4.292 2.905 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010 61.017 61.021 54.798 54.808 54.815 48.884	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.776 98.854 99.101 98.703 99.081 99.248 98.643	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.8960 34.8949 34.8568 33.4539 33.3943 33.3943 33.3943	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524 .2526 .2529 .2547 .2550 .2567	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173 .86444 .93905 .72390	.09413 .09474 .09971 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21527 .21448 .21485 .20222 .20225 .20255 .20251 .18952	.002 .001 .003 .002 .002 .002 .002 .002 .001 .001 .001	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Adj. Therma: Cor Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21542 .21559 .20326 .20329 .20321 .19058	18 .14592021919894 devietion expceic. percent11423510462244181773
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005 44006 44007 44008 44009 44010 44010 44011	4.292 2.905 2.904 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010 61.017 61.021 54.808 54.815 48.884 48.890	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.776 98.854 99.101 98.703 99.081 99.248 98.643 98.831	4.0336 4.0170 2.7701 2.7787 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.9060 34.8949 33.3689 33.3689 33.3683 33.3683 31.8830	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524 .2529 .2544 .2547 .2550 .2567 .2569	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173 .86444 .93905 .72390 .79283	.09413 .09474 .09971 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21448 .21485 .20222 .20255 .20255 .20251 .18952 .19006	.002 .001 .003 .002 .002 .002 .002 .002 .001 .001 .001	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Ad J. Therma Cor Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21542 .21559 .20326 .20326 .20329 .20311 .19058 .19098	1814592021919894 nductivity deviation exp-caic. percent1142351046224416177340
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005 44006 44007 44008 44009 44010 44010 44011 44012	4.292 2.905 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010 61.017 61.021 54.808 54.815 48.884 48.895	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.776 98.854 99.101 98.776 98.854 99.101 98.703 99.081 99.248 98.643 98.831	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.9060 34.8956 33.4539 33.3689 31.9132 31.8830 31.8264	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524 .2526 .2529 .2544 .2547 .2550 .2567 .2569 .2569	.45933 .52366 .3406 .3998 .46000 .34477 .40070 .46115 POWER W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173 .86444 .93905 .72390 .72390 .72393 .86546	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21448 .21488 .214	.002 .001 .003 .002 .002 .002 .002 .002 .001 .001 .001	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Ad J. Therma Con Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21552 .21559 .20326 .20329 .20311 .19058 .19041	18 .14592021919894 nductivity deviation expcalc. percent114235104622441817734046
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005 44006 44007 44008 44009 44010 44011 44012 44013	4.292 2.905 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.094 68.094 68.093 61.010 61.017 61.021 54.798 54.808 54.815 48.884 48.895 43.759	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.776 98.854 99.101 98.703 99.081 99.248 98.643 98.831 99.175 98.837	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.9060 34.8949 34.8568 33.4539 33.3689 31.9132 31.8830 31.88264 30.3791	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2529 .2524 .2526 .2529 .2547 .2550 .2567 .2569 .2569 .2571 .2600	.45933 .52366 .34984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173 .86444 .93905 .72390 .79283 .86546 .72516	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22836 .21527 .21448 .21485 .20222 .20255 .20255 .20251 .18952 .19006 .18976 .17881	.002 .001 .003 .002 .002 .002 .002 .002 .001 .001 .001	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Ad J. Therma Cor Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21542 .21559 .20326 .20326 .20329 .20311 .19058 .19098	18 .14592021919894 nductivity deviation expcalc. percent11423510462244181773404659
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44005 44006 44007 44009 44010 44011 44012 44013 44014	4.292 2.905 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010 61.017 61.021 54.798 54.808 54.815 48.890 48.895 43.759 43.759	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.776 98.854 99.101 98.703 99.081 99.248 98.643 98.831 99.175 98.837	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.8960 34.8968 33.4539 33.3968 31.9132 31.8830 31.8264 30.3791	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524 .2526 .2529 .2544 .2547 .2550 .2567 .2569 .2569	.45933 .52366 .3406 .3998 .46000 .34477 .40070 .46115 POWER W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173 .86444 .93905 .72390 .72390 .72393 .86546	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21448 .21485 .20222 .20255 .20251 .18952 .19006 .18976 .17881	.002 .001 .003 .002 .002 .002 .002 .002 .001 .001 .001	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Ad J. Therma Con Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21552 .21559 .20326 .20329 .20311 .19058 .19041	18 .14592021919894 nductivity deviation expcalc. percent114235104622441817734046
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005 44006 44007 44008 44009 44010 44011 44012 44013 44013 44014 44015	4.292 2.905 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.094 68.094 68.093 61.010 61.017 61.021 54.798 54.808 54.815 48.884 48.895 43.759	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.776 98.854 99.101 98.703 99.081 99.248 98.643 98.831 99.175 98.837	4.0336 4.0170 2.7701 2.7787 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.9060 34.8949 33.3689 31.8568 33.3689 31.8264 30.3791 30.3206 30.3206	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2529 .2524 .2526 .2529 .2547 .2550 .2567 .2569 .2569 .2571 .2600	.45933 .52366 .34984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173 .86444 .93905 .72390 .79283 .86546 .72516	.09413 .09474 .09971 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22831 .22836 .21527 .21448 .21485 .20222 .20255 .20251 .18952 .19006 .18976 .17881 .17952	.002 .001 .003 .002 .002 .002 .002 .002 .001 .001 .001	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Adj. Therma: Cor Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21542 .21559 .20326 .20329 .20311 .19058 .19041 .17970 .18015	18 .14592021919894 nductivity deviation expcalc. percent11423510462244181773404659
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44005 44006 44007 44009 44010 44011 44012 44013 44014	4.292 2.905 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010 61.017 61.021 54.798 54.808 54.815 48.890 48.895 43.759 43.759	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.776 98.854 99.101 98.703 99.081 99.248 98.643 98.831 99.175 98.837	4.0336 4.0170 2.7701 2.7787 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.9060 34.8949 33.3689 31.8568 33.3689 31.8264 30.3791 30.3206 30.3206	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524 .2529 .2544 .2547 .2550 .2567 .2569 .2571 .2600 .2603 .2605	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173 .86444 .93905 .72390 .79283 .86546 .72516 .79538 .86642	.09413 .09474 .09971 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21448 .21485 .20222 .20255 .20255 .20255 .18952 .19006 .18976 .17861 .17952 .17826	.002 .001 .002 .002 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Ad J. Therma Cor Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21542 .21559 .20326 .20326 .20329 .20311 .19058 .19041 .17970 .18015	1814592021919894 nductivity deviation expcelc. percent114235104622441617734046591180
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005 44006 44007 44008 44010 44011 44012 44013 44014 44015 44016	4.292 2.905 2.904 1.456 1.455 1.455 1.455 Pressure MPa 68.096 68.093 61.010 61.017 61.021 54.808 54.815 48.884 48.895 43.765 39.158	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.776 98.854 99.101 98.776 98.854 99.101 98.703 99.248 98.643 98.831 99.175 98.837 99.181 99.281	4.0336 4.0170 2.7701 2.77587 2.7461 1.3950 1.3886 1.3817 Density moi/L 36.4360 36.4207 36.3915 34.9060 34.8949 34.8568 33.4539 33.3689 31.9132 31.8830 31.8264 30.3791 30.3206 28.8840	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 .3116 .3116 .2502 .2504 .2507 .2524 .2529 .2524 .2547 .2550 .2567 .2569 .2571 .2600 .2603 .2605 .2621	.45933 .52366 .34400 .39984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173 .86444 .93905 .72516 .72516 .79538 .86546 .72516	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21448 .21448 .21448 .21448 .21448 .21489 .20222 .20255 .20251 .18952 .19006 .17881 .17952 .17826 .16804	.002 .001 .002 .002 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Ad J. Therma Cor Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21552 .21559 .20326 .20329 .20311 .19058 .19041 .17970 .18015 .17861 .16895	18 .14592021919894 nductivity deviation expcelc. percent11423510462244181773404659118098
43068 43069 43070 43071 43072 43073 Run Pt. 44001 44002 44003 44004 44005 44006 44007 44008 44009 44010 44011 44012 44013 44013 44014 44015	4.292 2.905 2.904 1.456 1.455 1.455 1.455 1.455 Pressure MPa 68.096 68.094 68.093 61.010 61.017 61.021 54.798 54.808 54.815 48.890 48.895 43.759 43.759 43.763	125.562 124.360 124.821 125.357 124.689 125.190 125.771 Temperature K 98.621 98.718 98.905 98.776 98.854 99.101 98.703 99.081 99.248 98.643 98.831 99.175 98.837	4.0336 4.0170 2.7701 2.7787 2.7461 1.3950 1.3886 1.3817 Density mol/L 36.4360 36.4207 36.3915 34.9060 34.8949 33.3689 31.8568 33.3689 31.8264 30.3791 30.3206 30.3206	.3094 .3094 .3103 .3104 .3105 .3114 .3115 .3116 Para fraction .2502 .2504 .2507 .2524 .2529 .2544 .2547 .2550 .2567 .2569 .2571 .2600 .2603 .2605	.45933 .52366 .34402 .39984 .46000 .34477 .40070 .46115 Power W/m .79090 .86164 .93621 .79212 .86271 .93800 .79173 .86444 .93905 .72390 .79283 .86546 .72516 .79538 .86642	.09413 .09474 .09071 .09136 .09170 .08800 .08828 .08870 Experimental Thermal Conductivity W/m.K .22907 .22831 .22836 .21527 .21448 .21448 .21448 .21448 .21448 .21489 .20222 .20255 .20251 .18952 .19006 .17881 .17952 .17826 .16804	.002 .001 .002 .002 .002 .002 .002 .002	.09408 .09435 .09115 .09148 .09145 .08821 .08817 Ad J. Therma Cor Nom. Temperature 100.0 K W/m.K .23024 .22940 .22929 .21628 .21542 .21559 .20326 .20326 .20329 .20311 .19058 .19098 .19041 .17970 .18015	1814592021919894 nductivity deviation expcelc. percent114235104622441617734046591180

44018									
77010	39.165	99.290	28.7973	• 2625	.79605	.16869	.001	•16922	49
44019	35.033	98.870	27,3622	.2641	.66213	.15952	.001	.16045	35
44020	35.036	99.114	27.3193	.2643	.72840	•15932	.001		49
44021	35.039	99.542	27.2435	• 2646	•79939	• 15978 ·	.001	•16012	12
44022	31.342	99.101	25.8130	. 2665	.66333	•15113	.001	.15178	14
	31.344	99.339	25.7706						
44023				•2667	.72957	.15073	.001		37
44024	31.346	99.737	25.6987	.2669	.80017	• 15148	.001	•15167	•20
44025	28.088	99.236	24.3058	.2687	.66426	.14270	.001	.14324	44
44026	28.091	99.522	24.2545	.2689	.73082	.14262	.001	.14296	45
44027	28.094	99.808	24.2034	. 26 91	.80095	.14264	.001	.14278	39
44028	24.915	99.126	22.7098	. 2705	.60178	.13453	.001	.13514	57
44029	24.917	99.333	22.6728	.2707	•66495	•13551	•002	.13597	.18
44030	24.919	99.743	22.5982	.2709	.73228	.13548	.001	.13566	.21
44031	22.369	99.320	21.2305	.2723	.60287	.12883	.001	.12929	•16
44032	22.370	99.606	21.1787	.2725	.66641	•12847	.001	•12874	10
44033	22.371	99.885	21.1285	.2727	.73307	.12884	.002	.12892	.21
44034	19.941	99.521	19.6723	.3167	.60468	•12298	.001		.14
44035	19.941	100.065	19.5745	•3169	.56978	•12327	.001	•12322	.39
44036	19.942	99.152	19.7395	.3172	.54390	.12212	.002		59
44037	17.807	99.310	18.2366	.3183	.54444	•11702	.001	.11748	•00
44038	17.807	99.620	18.1823	.3185	.60488	.11683	.002	.11708	16
44039	17.808	100.051	18.1074	.3187	.66945	.11784	.002	.11780	.69
44043	13.722	99.281	15.0037	.3221	.48895	.10509	.002	.10555	58
44044	13.722	99.583	14.9557	•3223	.54650	•10577	.002	.10604	•03
		99.889	14.9072						
44045	13.722			•3226	•60714	.10588	.002		.09
44046	12.338	99.026	13.8070	.3240	.43541	.10130	.001	.10191	48
44047	12.338	99.403	13.7499	.3242	.48950	.10156	.002	.10193	29
44048		99.797			.54727		.002		32
	12.338		13.6910	.3244		.10160			
44049	10.558	99.186	12.0813	•3257	.43610	.09608	.002	.09658	74
44050	10.558	99.533	12.0342	.3259	.49014	.09675	.002	.09704	13
44051	10.558	99.980	11.9741	•3260	.54829	.09724	.002	.09725	• 26
44053	9.258	99.327	10.7436	.3282	.43692	• 09297	.002	.09339	23
44054	9.258	99.744	10.6927	.3284	.49129	.09324	.002		07
44055	7.582	99.265	8.9573	.3296	.38685	.08817	.002		32
44056	7.582	99.720	8.9109	• 3298	.43840	.08834	.002	.08851	32
44057	7.582	100.090	8.8732	.3301	.49289	.08864	.002	.08858	14
44058	6.374	99.118	7.6189	.3313	.33958	.08469	.002	.08525	42
44059	6.374	99.445	7.5905	.3314	.38735	.08499	.002	.08534	23
	6.374	99.754	7.5636	.3316				.08542	07
44060					.43842	.08526	.002		
44061	5.019	99.173	6.0474	•3328	.33983	.08085	.001	.08138	65
44062	5.019	99.671	6.0131	.3330	.38819	.08131	.001	.08152	39
44063	5.019	100.034	5.9884	•3332	.43950	.08156	.001	.08154	30
44064	3.782	98.967	4.5909	.3344	.29593	.07733	.003	.07800	88
44065	3.782	99.496	4.5637	.3345	.34119	.07780	.002		64
44066	3.782	99.835	4.5465	.3347	.38924	.07835	.002	•07816	56
		99.835	4.5465	.3347	.38924	.07835	.002	•07816	
44067	2.525	99.835 99.318	4.5465 3.0616	.3347 .3359	.38924 .29702	.07835 .07459	.002	•07816 •07504	56 60
44067 44068	2.525 2.524	99.835 99.318 99.786	4.5465 3.0616 3.0456	.3347 .3359 .3361	.38924 .29702 .34213	.07805 .07459 .07470	.002 .002	•07816 •07504 •07484	56 60 82
44067	2.525	99.835 99.318	4.5465 3.0616	.3347 .3359	.38924 .29702	.07835 .07459	.002	•07816 •07504 •07484	56 60
44067 44068 44069	2.525 2.524 2.524	99.835 99.318 99.786 100.139	4.5465 3.0616 3.0456 3.0340	.3347 .3359 .3361 .3363	.38924 .29702 .34213 .39040	.07805 .07459 .07470 .07493	.002 .002 .002	•07816 •07504 •07484 •07483	56 60 82 81
44067 44068 44069 44070	2.525 2.524 2.524 1.160	99.835 99.318 99.786 100.139 99.649	4.5465 3.0616 3.0456 3.0340 1.4025	.3347 .3359 .3361 .3363 .3377	.38924 .29702 .34213 .39040 .29796	.07805 .07459 .07470 .07493 .07098	.002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121	56 60 82 81 -1.40
44067 44068 44069 44070 44071	2.525 2.524 2.524 1.160 1.160	99.835 99.318 99.786 100.139 99.649 99.141	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095	.3347 .3359 .3361 .3363 .3377	.38924 .29702 .34213 .39040 .29796 .25585	.07805 .07459 .07470 .07493 .07098	.002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100	56 60 82 81 -1.40 -1.73
44067 44068 44069 44070	2.525 2.524 2.524 1.160	99.835 99.318 99.786 100.139 99.649	4.5465 3.0616 3.0456 3.0340 1.4025	.3347 .3359 .3361 .3363 .3377	.38924 .29702 .34213 .39040 .29796	.07805 .07459 .07470 .07493 .07098	.002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100	56 60 82 81 -1.40
44067 44068 44069 44070 44071	2.525 2.524 2.524 1.160 1.160	99.835 99.318 99.786 100.139 99.649 99.141	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095	.3347 .3359 .3361 .3363 .3377	.38924 .29702 .34213 .39040 .29796 .25585	.07805 .07459 .07470 .07493 .07098	.002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100	56 60 82 81 -1.40 -1.73
44067 44068 44069 44070 44071	2.525 2.524 2.524 1.160 1.160	99.835 99.318 99.786 100.139 99.649 99.141	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095	.3347 .3359 .3361 .3363 .3377	.38924 .29702 .34213 .39040 .29796 .25585	.07805 .07459 .07470 .07473 .07098 .07043	.002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138	56 60 82 81 -1.40 -1.73 -1.14
44067 44068 44069 44070 44071	2.525 2.524 2.524 1.160 1.160	99.835 99.318 99.786 100.139 99.649 99.141	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095	.3347 .3359 .3361 .3363 .3377	.38924 .29702 .34213 .39040 .29796 .25585	.07805 .07459 .07479 .07479 .07493 .07098 .07043 .07145	.002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138	56 60 82 81 -1.40 -1.73 -1.14
44067 44068 44069 44070 44071	2.525 2.524 2.524 1.160 1.160	99.835 99.318 99.786 100.139 99.649 99.141	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095	.3347 .3359 .3361 .3363 .3377	.38924 .29702 .34213 .39040 .29796 .25585	.07805 .07459 .07470 .07473 .07098 .07043	.002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138	56 60 82 81 -1.40 -1.73 -1.14
44067 44068 44069 44070 44071 44072	2.525 2.524 2.524 1.160 1.160 1.159	99.835 99.318 99.786 100.139 99.649 99.141 100.092	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947	.3347 .3359 .3361 .3363 .3377 .3377 .3380	.38924 .29702 .34213 .39040 .29796 .25585 .34325	.07805 .07459 .07470 .07470 .07098 .07043 .07145 Experimental	.002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Col	56 60 82 81 -1.40 -1.73 -1.14
44067 44068 44069 44070 44071 44072	2.525 2.524 2.524 1.160 1.160 1.159	99.835 99.318 99.786 100.139 99.649 99.141 100.092	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947	.3347 .3359 .3361 .3363 .3377 .3377 .3380	.38924 .29702 .34213 .39040 .29796 .25585 .34325	.07805 .07459 .07470 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity	.002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K	56 60 82 81 -1.40 -1.73 -1.14 nductivity devistion expcsic.
44067 44068 44069 44070 44071 44072	2.525 2.524 2.524 1.160 1.160 1.159	99.835 99.318 99.786 100.139 99.649 99.141 100.092	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947	.3347 .3359 .3361 .3363 .3377 .3377 .3380	.38924 .29702 .34213 .39040 .29796 .25585 .34325	.07805 .07459 .07470 .07470 .07098 .07043 .07145 Experimental	.002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Col	56 60 82 81 -1.40 -1.73 -1.14
44067 44068 44069 44070 44071 44072	2.525 2.524 2.524 1.160 1.160 1.159 Pressure	99.835 99.318 99.786 100.139 99.649 99.141 100.092	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947	.3347 .3359 .3361 .3363 .3377 .3377 .3380	.38924 .29702 .34213 .39040 .29796 .25585 .34325	.07805 .07459 .07470 .07470 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Cor Nom. Temperature 78.0 K	56 60 82 81 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent
44067 44068 44069 44070 44071 44072	2.525 2.524 2.524 1.160 1.160 1.159 Pressure	99.835 99.318 99.786 100.139 99.649 99.141 100.092	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947	.3347 .3359 .3361 .3363 .3377 .3377 .3380	.38924 .29702 .34213 .39040 .29796 .25585 .34325	.07805 .07459 .07470 .07470 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Cor Nom. Temperature 78.0 K	56 60 82 81 -1.40 -1.73 -1.14 nductivity devistion expcsic.
44067 44068 44069 44070 44071 49072	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938	.3347 .3359 .3361 .3363 .3377 .3380 .3377 .3380	.38924 .29702 .34213 .39040 .29796 .25585 .34325	.07805 .07459 .07479 .07470 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Col Nom. Temperature 78.0 K W/m.K	56 60 82 81 -1.40 -1.73 -1.14 nductivity devistion expcsic. percent
44067 44068 44069 44070 44071 44072 Run Pt.	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938 39.7700	.3347 .3359 .3361 .3363 .3377 .3377 .3380	.38924 .29702 .34213 .39040 .29796 .25585 .34325	.07805 .07459 .07479 .07479 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Co. Nom. Temperature 78.0 K W/m.K	56 60 82 81 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent
44067 44068 44069 44070 44071 44072 Run Pt. 45001 45002 45003	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7700 39.7679	.3347 .3359 .3361 .3363 .3377 .3377 .3380 para fraction .2502 .2505 .2508	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588	.07805 .07459 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663	56608281 -1.40 -1.73 -1.14 nductivity deviation expcaic. percent 1.11 1.1175
44067 44068 44069 44070 44071 44072 Run Pt.	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938 39.7700	.3347 .3359 .3361 .3363 .3377 .3377 .3380	.38924 .29702 .34213 .39040 .29796 .25585 .34325	.07805 .07459 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663	56 60 82 81 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent
44067 44068 44069 44070 44071 44072 Run Pt. 45001 45002 45003 45004	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 59.513	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K 77.293 77.431 77.443 77.093	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7703 39.7707 38.2826	.3347 .3359 .3361 .3363 .3377 .3380 para fraction .2502 .2505 .2508 .2514	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405	.07805 .07459 .07470 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929	.002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009	56 60 82 81 -1.40 -1.73 -1.14 nductivity devision expcsic. percent 1.11 1.11 .75 .29
44067 44068 44069 44070 44071 49072 Run Pt. 45001 45002 45003 45004 45005	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.431 77.093 77.214	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938 39.7700 39.7679 38.2826 38.2614	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822	.07805 .07459 .07470 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812	.002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Cor Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881	56 60 82 81 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.11 75 29 18
44067 44068 44069 44070 44071 44072 Run Pt. 45001 45002 45003 45004 45005 45005	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K 77.293 77.431 77.443 77.093 77.214	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938 39.7700 39.7679 38.2826 38.2614 38.2129	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641	.07805 .07459 .07459 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Coi Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .2281	56 60 82 81 -1.40 -1.73 -1.14 nductivity devistion expcsic. percent 1.11 1.11 .75 .29 18 01
44067 44068 44069 44070 44071 49072 Run Pt. 45001 45002 45003 45004 45005	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.431 77.093 77.214	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938 39.7700 39.7679 38.2826 38.2614	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822	.07805 .07459 .07470 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812	.002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Coi Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .2281	56 60 82 81 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.11 75 29 18
44067 44068 44069 44070 44071 44072 8un Pt. 45001 45002 45003 45004 45005 45005 45006 45007	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.443 77.443 77.093 77.214 77.483 77.483	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density moi/L 39.7738 39.7700 39.7679 38.2826 38.2219 36.0092	.3347 .3359 .3361 .3363 .3377 .3380 para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2543	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641 .65768	.07805 .07459 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474	.002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522	56608281 -1.40 -1.73 -1.14 nductivity deviation expcaic. percent 1.11 1.11 .75 .291801 .86
44067 44068 44069 44070 44071 44072 Run Pt. 45001 45002 45003 45004 45005 45006 45007 45008	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K 77.293 77.431 77.443 77.93 77.214 77.883 77.436 77.436	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7703 39.7707 38.2826 38.2614 38.2223 36.6092 36.6092	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2543 .2546	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641 .65768 .71128	.07805 .07459 .07470 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.11752918018630
44067 44068 44069 44070 44071 49072 Run Pt. 45001 45002 45003 45004 45005 45006 45007 45008 45009	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.483 77.483 77.483 77.477	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7793 39.7709 38.2826 38.2614 38.2129 36.6092 36.6036 36.5604	.3347 .3359 .3361 .3363 .3377 .3380 para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2543 .2546 .2549	-38924 -29702 -34213 -39040 -29796 -25585 -34325 -71036 -76559 -71036 -7658 -70822 -76641 -65768 -71128 -71128 -71128	.07805 .07459 .07470 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Cor Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367	56608281 -1.40 -1.73 -1.14 nductivity deviation expcaic. percent 1.11 1.1175291801863035
44067 44068 44069 44070 44071 44072 Run Pt. 45001 45002 45003 45004 45005 45006 45007 45008	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K 77.293 77.431 77.443 77.93 77.214 77.883 77.436 77.436	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7703 39.7707 38.2826 38.2614 38.2223 36.6092 36.6092	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2543 .2546	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641 .65768 .71128	.07805 .07459 .07470 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Cor Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.11752918018630
44067 44068 44069 44070 44071 44072 Run Pt. 45002 45003 45005 45005 45005 45007 45008 45008 45009 45009 45010	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 57.513 59.513 59.517 52.263 52.273 52.273 46.117	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.093 77.214 77.483 77.493 77.7214	4.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7700 39.7679 38.2826 38.2614 38.2129 36.6036 36.5604 35.0514	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2543 .2546 .2549 .2571	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .76641 .65768 .71128 .76641 .65768	.07805 .07459 .07459 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22929 .22812 .22826 .21474 .21353 .21343 .19966	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Col Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007	56608281 -1.40 -1.73 -1.14 nductivity deviation expcaic. percent 1.11 1.117529180186303525
44067 44068 44069 44070 44071 44072 8001 45002 45003 45004 45005 45005 45007 45008 45009 45010 45011	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.117 46.125	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.443 77.443 77.443 77.463 77.477 77.712 77.503 77.616	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938 39.7770 38.2826 38.2614 38.2129 36.6036 36.5604 35.05514 35.0311	.3347 .3359 .3361 .3363 .3377 .3380 para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2543 .2546 .2549 .2571 .2574	-38924 -29702 -34213 -39040 -29796 -25585 -34325 -76588 -76588 -65405 -70822 -76641 -65768 -71128 -76945 -65804 -71289	.07805 .07470 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22912 .22812 .22826 .21474 .21353 .21343 .19966 .19896	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928	56608281 -1.40 -1.73 -1.14 nductivity deviation expcaic. percent 1.11 1.11752918018630352506
44067 44068 44070 44071 44072 Run Pt. 45001 45002 45003 45004 45005 45006 45007 45008 45009 45010 45011 45012	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.125 46.125	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K 77.293 77.431 77.443 77.093 77.443 77.483 77.477 77.712 77.503 77.616 77.802	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7703 39.7707 38.2826 38.2614 38.2223 36.6092 36.6092 36.6093 36.5504 35.0514 35.0511 34.9963	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2546 .2546 .2549 .2571 .2576	-38924 -29702 -34213 -39040 -29796 -25585 -34325 -71036 -76588 -65405 -70822 -76641 -65768 -71128 -76945 -65804 -71289 -77051	.07805 .07459 .07479 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343 .19966 .19896	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.1175291801863035250601
44067 44068 44069 44070 44071 44072 8001 45002 45003 45004 45005 45005 45007 45008 45009 45010 45011	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.117 46.125	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.443 77.443 77.443 77.443 77.4636 77.477 77.772 77.772 77.503 77.616	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938 39.7770 38.2826 38.2614 38.2129 36.6036 36.5604 35.05514 35.0311	.3347 .3359 .3361 .3363 .3377 .3380 para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2543 .2546 .2549 .2571 .2574	-38924 -29702 -34213 -39040 -29796 -25585 -34325 -76588 -76588 -65405 -70822 -76641 -65768 -71128 -76945 -65804 -71289	.07805 .07470 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22912 .22812 .22826 .21474 .21353 .21343 .19966 .19896	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907	56608281 -1.40 -1.73 -1.14 nductivity deviation expcaic. percent 1.11 1.117529180186303525060147
44067 44068 44069 44070 44071 44072 84072 85001 45002 45003 45005 45006 45007 45008 45009 45010 45011 45012 45012 45013	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.279 46.117 46.125 46.134 40.443	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K 77.293 77.431 77.443 77.493 77.483 77.483 77.476 77.772 77.503 77.616 77.802 77.497	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7709 39.7679 38.2826 38.2614 38.2129 36.6092 36.6092 36.5036 36.5604 35.0514 35.0514 35.0311 34.9963 33.4339	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2543 .2546 .2549 .2571 .2576 .2576	-38924 -29702 -34213 -39040 -29796 -25585 -34325 -25585 -71036 -7558 -76588 -71036 -7128 -	.07805 .07459 .07470 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343 .19966 .19896 .19891 .18500	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Cor Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.1175291801863035250601
44067 44068 44069 44070 44071 44072 Run Pt. 45002 45003 45005 45005 45007 45007 45008 45009 45010 45011 45012 45013 45014	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.117 46.125 46.134 40.443 40.449	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.493 77.493 77.477 77.712 77.7503 77.516 77.802 77.802	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7738 39.7700 39.7679 38.2826 38.2614 38.2129 36.6092 36.6092 36.6036 36.5604 35.0514 35.0514 35.0514 33.4339 33.3629	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2543 .2546 .2549 .2571 .2574 .2576 .2596 .2598	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641 .65768 .711289 .71289 .77051 .65817 .71516	.07805 .07459 .07459 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343 .19966 .19896 .19891 .18500 .18463	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Col Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.11752918018630352506014752
44067 44068 44069 44070 44071 44072 45002 45003 45004 45005 45006 45007 45008 45009 45010 45012 45012 45013 45013 45013	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.117 46.125 46.134 40.443 40.443 40.449	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.443 77.443 77.456 77.477 77.712 77.712 77.503 77.616 77.802 77.802 77.896	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938 39.7770 38.2826 38.2614 38.2129 36.6092 36.6036 36.5604 35.0514 35.0514 35.0514 35.0514 33.4339 33.33629 33.3383	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2514 .2520 .2525 .2543 .2546 .2549 .2571 .2574 .2576 .2576 .2598 .2601	-38924 -29702 -34213 -39040 -29796 -25585 -34325 -76588 -76588 -76588 -76588 -76945 -7765 -7765 -7765 -7765 -7765 -7765 -7765 -7765 -7765 -7765	.07805 .07479 .07470 .07473 .07098 .07098 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343 .19966 .19896 .19896 .19891 .18500 .18463 .18465	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .2007 .19928 .19907 .18540 .18475 .18457	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.1175291801863035250601475251
44067 44068 44070 44071 44072 Run Pt. 45001 45002 45003 45004 45005 45006 45007 45010 45011 45012 45013 45014 45015 45015	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.127 46.125 46.134 40.443 40.443 40.445 635.433	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K 77.293 77.431 77.443 77.493 77.493 77.436 77.477 77.712 77.502 77.516 77.616 77.802 77.497 77.802 77.497	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7703 39.7707 38.2826 38.2614 38.222 36.6092 36.6092 36.6093 33.4339 33.4339 33.4339 33.4339 33.4339 33.4339	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2546 .2546 .2546 .2546 .2571 .2576 .2576 .2576 .2598 .2598 .2598	-38924 -29702 -34213 -39040 -29796 -25585 -34325 -65559 -71036 -76588 -65405 -70822 -76641 -65768 -71128 -76945 -65804 -71289 -77051 -75817 -77151 -77253 -77253 -766138	.07805 .07459 .07479 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343 .119966 .19896 .19891 .18500 .18463 .18465 .17242	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475 .18457	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.11752918018630352506014752
44067 44068 44069 44070 44071 44072 45002 45003 45004 45005 45006 45007 45008 45009 45010 45012 45012 45013 45013 45013	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.127 46.125 46.134 40.443 40.443 40.445 635.433	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K 77.293 77.431 77.443 77.493 77.493 77.436 77.477 77.712 77.502 77.516 77.616 77.802 77.497 77.802 77.497	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7703 39.7707 38.2826 38.2614 38.222 36.6092 36.6092 36.6093 33.4339 33.4339 33.4339 33.4339 33.4339 33.4339	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2546 .2546 .2546 .2546 .2571 .2576 .2576 .2576 .2598 .2598 .2598	-38924 -29702 -34213 -39040 -29796 -25585 -34325 -65559 -71036 -76588 -65405 -70822 -76641 -65768 -71128 -76945 -65804 -71289 -77051 -75817 -77151 -77253 -77253 -766138	.07805 .07459 .07479 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343 .119966 .19896 .19891 .18500 .18463 .18465 .17242	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475 .18457	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.1175291801863035250601475251
44067 44068 44070 44071 44072 84072 85001 45002 45003 45005 45005 45006 45007 45010 45011 45012 45013 45014 45015 45016 45017	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.279 46.117 46.125 46.134 40.443 40.443 40.449 40.456 35.437	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Temperature K 77.293 77.431 77.443 77.493 77.483 77.483 77.476 77.772 77.503 77.616 77.802 77.897 77.846 77.897	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7709 39.7679 38.2826 38.2614 38.2129 36.6092 36.6092 36.5036 36.5604 35.0514 35.0514 33.4339 33.4339 33.4339 33.3823 31.7536 31.7093	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2549 .2549 .2549 .2549 .2571 .2576 .2596 .2598 .2601 .2642 .2642	-38924 -29702 -34213 -39040 -29796 -25585 -34325 -36559 -71036 -76588 -65405 -70822 -76641 -7128 -77051 -65804 -7128 -77051 -77253 -76817 -77253 -77253 -77253 -77253 -77253	.07805 .07459 .07470 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21353 .21343 .19966 .19896 .19891 .18500 .18463 .18455 .17242 .17440	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Cor Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475 .18457 .17265 .17447	56608281 -1.40 -1.73 -1.14 nductivity deviation expcaic. percent 1.11 1.11752918018630352506014752515271
44067 44068 44069 44070 44071 44072 84072 45002 45003 45005 45005 45007 45008 45009 45010 45011 45015 45012 45013 45014 45015 45016 45017 45016	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.117 46.125 46.134 40.449 40.456 35.433 35.437 35.440	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.093 77.214 77.483 77.436 77.477 77.712 77.503 77.616 77.802 77.802 77.846 77.973 77.974 77.974	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7738 39.7700 39.7679 38.2826 38.2614 38.2129 36.6092 36.6092 36.6092 36.6092 36.6093 36.9963 39.3767 39.7793 31.7536 31.7793 31.7793	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2543 .2546 .2549 .2571 .2574 .2576 .2598 .2601 .2642 .2646 .2649	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641 .65768 .71289 .77051 .65804 .71289 .77051 .65817 .71516 .77253 .66138 .777254	.07805 .07479 .07470 .07473 .07098 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22812 .22812 .22812 .21343 .19966 .19891 .18500 .18463 .18463 .18455 .17242 .17209	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .21367 .20007 .19928 .19907 .18540 .18475 .18457 .17265 .17447 .17204	56608281 -1.40 -1.73 -1.14 nductivity deviation exp-casic. percent 1.11 1.11752918018630352506014752515255
44067 44068 44070 44070 44071 44072 Run Pt. 45001 45002 45003 45004 45005 45006 45007 45008 45009 45011 45012 45013 45014 45015 45016 45017 45016	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.117 46.125 46.134 40.443 40.449 40.446 35.433 35.437 35.440 30.515	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.443 77.443 77.443 77.516 77.477 77.712 77.512 77.516 77.802 77.616 77.802 77.616 77.802 77.973 77.77	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938 39.7770 38.2826 38.2614 38.2229 36.6092 36.6092 36.6036 36.5604 35.0511 34.9963 33.4339 33.4339 33.3383 31.7796 31.7795 29.8626	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2514 .2520 .25543 .2546 .2549 .2571 .2576 .2576 .2576 .2598 .2601 .2642 .2649 .2649	-38924 -29702 -34213 -39040 -29796 -25585 -34325 -34325 -45589 -76588 -65559 -76588 -65768 -76588 -71128 -76945 -71289 -77051 -71289 -77051 -71289 -77051 -71289 -77051 -71289 -77051 -77253 -77253 -77253 -77253 -77253 -77253 -77253 -77254 -77266 -77266	.07805 .07479 .07470 .07473 .07098 .07098 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .11343 .11966 .19896 .19891 .18500 .18463 .18455 .17242 .17440 .17209 .15902	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .2007 .19928 .19907 .18540 .18475 .18457 .17265 .17447 .17204 .15915	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.1175291801863035250601475251527155580
44067 44068 44069 44070 44071 44072 84072 45002 45003 45005 45005 45007 45008 45009 45010 45011 45015 45012 45013 45014 45015 45016 45017 45016	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.117 46.125 46.134 40.449 40.456 35.433 35.437 35.440	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.093 77.214 77.483 77.436 77.477 77.712 77.503 77.616 77.802 77.802 77.846 77.973 77.974 77.974	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7738 39.7700 39.7679 38.2826 38.2614 38.2129 36.6092 36.6092 36.6092 36.6092 36.6093 36.9963 39.3767 39.7793 31.7536 31.7793 31.7793	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2543 .2546 .2549 .2571 .2574 .2576 .2598 .2601 .2642 .2646 .2649	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641 .65768 .71289 .77051 .65804 .71289 .77051 .65817 .71516 .77253 .66138 .777254	.07805 .07479 .07470 .07473 .07098 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22812 .22812 .22812 .21343 .19966 .19891 .18500 .18463 .18463 .18455 .17242 .17209	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .2007 .19928 .19907 .18540 .18475 .18457 .17265 .17447 .17204 .15915	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.11752918018601475251527155271550
44067 44068 44070 44071 44072 Run Pt. 45001 45002 45003 45004 45005 45006 45007 45010 45011 45012 45013 45014 45015 45017 45018 45016 45017 45018 45018	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 52.273 46.125 46.125 46.125 46.134 40.443 40.443 40.443 40.445 635.433 35.437 35.440 30.515 30.512	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.493 77.214 77.483 77.436 77.477 77.712 77.516 77.802 77.497 77.802 77.497 77.802 77.497 77.802 77.497 77.802 77.497 77.802 77.497	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7703 39.7707 38.2826 38.2614 38.222 36.6092 36.6092 36.6092 36.6036 33.4339 33.4339 33.4339 33.4339 33.4339 33.4339 33.4339 33.4339 33.4339 33.4339	.3347 .3359 .3361 .3377 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2546 .2549 .2574 .2576 .2576 .2576 .2598 .2546 .2598 .2546 .2549 .2576 .2598 .2546 .2598 .2546 .2549 .2576 .2598 .2546 .2549 .2576 .2598 .2546 .2549 .2576 .2576 .2598 .2546 .2549 .25	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641 .65768 .71128 .76945 .65804 .71289 .77051 .71516 .71516 .71516 .77253 .66138 .71770 .77546 .66270 .71909	.07805 .07459 .07470 .07470 .07493 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343 .119966 .19896 .19891 .18500 .18463 .18465 .17242 .17440 .17209 .15902 .15927	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475 .18457 .17265 .17447 .17204 .15915	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.11752918018601475251527155271550
44067 44068 44070 44071 44072 84072 84072 45001 45002 45003 45005 45006 45005 45006 45007 45010 45011 45012 45013 45016 45017 45018 45017 45018 45019	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.279 46.117 46.125 46.134 40.443 40.443 40.443 40.443 40.443 35.437 35.437 35.437 35.522 30.515	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.493 77.463 77.477 77.712 77.503 77.616 77.802 77.497 77.846 77.973 77.846 77.973 77.707 77.914 78.068 77.834 78.014	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 0.3947 0.3947679 38.2826 38.2614 38.2129 36.6092 36.6092 36.6092 36.5036 36.5604 35.0514 35.0514 35.0514 35.0514 35.0514 35.0514 35.0514 36.765 29.8626 29.8626 29.8626 29.8627 29.9205	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2549 .2514 .2527 .2546 .2549 .2571 .2576 .2596 .2596 .2598 .2642 .2646 .2649 .2648 .2648 .2638	.38924 .29702 .34213 .39040 .29796 .25585 .34325 POWER W/M .65559 .71036 .76588 .65405 .70822 .76641 .65768 .71289 .77051 .65804 .71289 .77051 .71516 .77253 .66138 .777546 .66270 .71909 .60922	.07805 .07459 .07470 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21353 .21343 .19966 .19891 .18500 .18463 .18463 .18465 .17242 .17242 .17440 .17209 .15902	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Col Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475 .18457 .17265 .17447 .17204 .15915 .15918	56608281 -1.40 -1.73 -1.14 nductivity deviation expcaic. percent 1.11 1.1175291801863035250601475251558050 -1.10
44067 44068 44070 44071 44072 Run Pt. 45001 45002 45003 45005 45006 45007 45008 45009 45011 45012 45013 45014 45015 45016 45017 45018 45019 45020 45020 45020 45020 45020 45020 45020 45020	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.515 59.517 52.263 52.273 52.273 46.117 46.125 46.134 40.449 40.456 35.437 35.437 35.437 35.437 35.438	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.093 77.214 77.483 77.477 77.712 77.712 77.503 77.616 77.802 77.497 77.707 77.712 77.8086 77.973 77.707 77.914 78.068 77.834 78.114 77.609 77.836	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 0.3947 0.3947700 39.7679 38.2826 38.2	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2543 .2546 .2549 .2571 .2574 .2576 .2598 .2610 .2649 .2649 .2649 .2649 .2649 .2648 .2638 .2638	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641 .65768 .71128 .769455 .65804 .71289 .77051 .65817 .77051 .65817 .77051 .77253 .66138 .77253 .66138 .771909 .771909 .771909 .771909 .60922 .61252	.07805 .07479 .07470 .07473 .07098 .07098 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22812 .22812 .22812 .21343 .19966 .19896 .19891 .18500 .18463 .18455 .17242 .17440 .17209 .15902 .15902 .15927 .15874 .15084	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475 .18457 .17265 .17447 .17204 .15915 .15918 .15904 .15906	56608281 -1.40 -1.73 -1.14 nductivity deviation exp-casic. percent 1.11 1.117529180186303525060147525152515251558C50 -1.1058
44067 44068 44070 44071 44072 84072 84072 45001 45002 45003 45005 45006 45005 45006 45007 45010 45011 45012 45013 45016 45017 45018 45017 45018 45019	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.279 46.117 46.125 46.134 40.443 40.443 40.443 40.443 40.443 35.437 35.437 35.437 35.522 30.515	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.493 77.463 77.477 77.712 77.503 77.616 77.802 77.497 77.846 77.973 77.846 77.973 77.707 77.914 78.068 77.834 78.014	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 0.3947 0.3947679 38.2826 38.2614 38.2129 36.6092 36.6092 36.6092 36.5036 36.5604 35.0514 35.0514 35.0514 35.0514 35.0514 35.0514 35.0514 36.765 29.8626 29.8626 29.8626 29.8627 29.9205	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2549 .2514 .2527 .2546 .2549 .2571 .2576 .2596 .2596 .2598 .2642 .2646 .2649 .2648 .2648 .2638	.38924 .29702 .34213 .39040 .29796 .25585 .34325 POWER W/M .65559 .71036 .76588 .65405 .70822 .76641 .65768 .71289 .77051 .65804 .71289 .77051 .71516 .77253 .66138 .777546 .66270 .71909 .60922	.07805 .07459 .07470 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21353 .21343 .19966 .19891 .18500 .18463 .18463 .18465 .17242 .17242 .17440 .17209 .15902	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475 .18457 .17265 .17447 .17204 .15915 .15918 .15904 .15906	56608281 -1.40 -1.73 -1.14 nductivity deviation expcaic. percent 1.11 1.1175291801863035250601475251558050 -1.10
44067 44068 44070 44070 44071 44072 Run Pt. 45001 45002 45005 45006 45006 45007 45008 45009 45011 45012 45013 45015 45016 45017 45018 45019 45019 45020 45021 45021 45021	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.117 46.125 46.134 40.443 40.449 40.446 35.433 35.437 35.440 30.515 30.512 30.522 27.438 27.443	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.443 77.483 77.483 77.47 77.712 77.503 77.616 77.802 77.497 77.896 77.973 77.707 77.896 77.973 77.707 77.816 77.973	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938 39.7700 39.7679 38.2826 38.2614 38.2229 36.6092 36.6092 36.6092 36.5004 35.0514 35.0511 34.9963 33.3383 31.7536 31.7093 31.6765 29.8626 29.8007 29.9205 28.5242 28.4207	.3347 .3359 .3361 .3377 .3380 Para fraction .2502 .2505 .2514 .2520 .2525 .2544 .2526 .2546 .2549 .2571 .2576 .2576 .2576 .2576 .2576 .2576 .2576 .2576 .2601 .2642 .2649 .2649 .2634 .2638 .2649 .26	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76645 .71289 .77051 .65816 .77253 .66138 .71770 .77546 .66270 .71909 .60922 .662917	.07805 .07479 .07470 .07473 .07098 .07098 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343 .19966 .19891 .18500 .18455 .17242 .17440 .17209 .15902 .15927 .15927 .15927 .15984 .15225	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .2007 .1928 .19907 .18540 .18475 .17467 .17265 .1747 .17265 .1747 .17204 .15915 .15918 .15904 .15096 .15204	56608281 -1.40 -1.73 -1.14 nductivity deviation exp-casic. percent 1.11 1.117529180186303525060147525152515251558C50 -1.1058
44067 44068 44070 44071 44072 84071 45001 45002 45003 45004 45005 45006 45007 45010 45012 45013 45014 45015 45017 45018 45017 45018 45019 45019 45019 45019 45019 45020 45021 45022 45023 45024	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 52.273 46.125 46.125 46.125 46.134 40.443 40.443 40.443 40.443 40.443 35.433 35.437 35.440 30.515 30.512 30.522 30.522 30.523 27.446	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.493 77.493 77.214 77.893 77.516 77.77.712 77.502 77.516 77.802 77.497 77.802 77.497 77.802 77.802 77.497 77.802 77.802 77.802 77.802 77.802 77.802 77.803 77.814 78.014 78.014 78.014 78.014 78.014 77.836 77.836 77.836 77.836 77.836	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 0.	.3347 .3359 .3361 .3377 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2546 .2546 .2546 .2546 .2576 .2576 .2576 .2576 .2598 .2601 .2642 .2642 .2649 .2648 .2638 .2638 .2698 .2701 .2704	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641 .65768 .71128 .77051 .65807 .71516 .77253 .66138 .71770 .77546 .66138 .71770 .77546 .66138 .71770 .71909 .60922 .61252 .66917 .72336	.07805 .07479 .07470 .07473 .07098 .07098 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22812 .22812 .21343 .11353 .21343 .113443 .11343 .11343 .11343 .11343 .11343 .11343 .11343 .11343 .113443 .11343 .11343 .11343 .11343 .11343 .11343 .11343 .11343 .113443 .11343 .11343 .11343 .113440 .11342 .11542	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475 .17265 .17447 .17204 .15915 .15918 .15904 .15904	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.1175291801860147525152715558050 -1.10585568
44067 44068 44070 44071 44072 84072 84072 45001 45002 45003 45005 45006 45005 45006 45007 45010 45011 45012 45013 45014 45015 45016 45017 45018 45017 45018 45019 45019 45020 45021 45022 45023 45024 45025	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.359 67.359 67.359 59.513 59.515 59.515 59.517 52.263 52.279 46.117 46.125 46.125 46.134 40.443 40.443 40.443 40.445 35.437 35.437 35.437 35.437 35.437 37.446 23.780	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.493 77.493 77.4763 77.616 77.616 77.777 77.712 77.503 77.616 77.802 77.497 77.846 77.973 77.707 77.894 77.894 77.973 77.707 77.914 78.068 77.834 78.114 77.609 77.834 78.114 77.609 77.834 78.279 78.243 77.777	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7038 39.7700 39.7679 38.2826 38.2614 38.2129 36.6092 36.6092 36.5036 36.5604 35.0514 35.0514 33.4339 34.4339 34.433	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .2505 .2508 .2514 .2520 .2525 .2544 .2520 .2525 .2546 .2549 .2571 .2576 .2596 .2596 .2596 .2642 .2646 .2649 .2648 .2638 .2638 .2698 .2701 .2704 .2704	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641 .65768 .71289 .77051 .65804 .71289 .77051 .71516 .77253 .66138 .71770 .77546 .66270 .71909 .60922 .66917 .72336 .56042	.07805 .07459 .07470 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343 .1986 .19896 .19891 .18500 .18463 .18465 .17242 .17242 .17440 .17209 .15927 .15927 .15984 .15927 .15984 .15982 .15982 .15982 .15982	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Col Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475 .18457 .17265 .17447 .17204 .15915 .15918 .15904 .15096 .15094 .15096 .15094 .15004 .15024 .14012	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.11752918018601475251558055
44067 44068 44070 44071 44072 Run Pt. 45002 45003 45005 45005 45007 45008 45007 45011 45012 45013 45014 45015 45016 45017 45018 45019 45023 45023 45023 45023 45023 45023 45023 45024 45025 45025	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 46.117 46.125 46.134 40.449 40.456 35.437 35.437 35.440 30.515 30.522 30.522 30.529 27.448 27.446 23.780 23.785	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.093 77.214 77.483 77.475 77.712 77.703 77.616 77.802 77.477 77.707 77.806 77.914 78.068 77.834 78.114 77.609 77.836 78.279 78.063	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 0.3947 0.3947700 39.7679 38.2826 38.2	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .25508 .2514 .2520 .25543 .2546 .2549 .2571 .2574 .2576 .2598 .2601 .2649 .2649 .2649 .2649 .2649 .2649 .2649 .2638 .2638 .2698 .2701 .2704 .2726 .2726	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .70822 .76540 .7128 .76945 .6580 .71289 .77051 .6581 .77051 .7	.07805 .07470 .07470 .07473 .07098 .07098 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22812 .22812 .21343 .19966 .19896 .19891 .18500 .18463 .18455 .17242 .17440 .17209 .15902	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475 .18457 .17265 .17447 .17204 .15915 .15918 .15904 .15024 .15024 .15024 .14026	56608281 -1.40 -1.73 -1.14 nductivity deviation expcaic. percent 1.11 1.117529180186303525060147525152515251558050 -1.105855687335
44067 44068 44070 44071 44072 84072 84072 45001 45002 45003 45005 45006 45005 45006 45007 45010 45011 45012 45013 45014 45015 45016 45017 45018 45017 45018 45019 45019 45020 45021 45022 45023 45024 45025	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.359 67.359 67.359 59.513 59.515 59.515 59.517 52.263 52.279 46.117 46.125 46.125 46.134 40.443 40.443 40.443 40.445 35.437 35.437 35.437 35.437 35.437 37.446 23.780	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.493 77.493 77.4763 77.616 77.616 77.777 77.712 77.503 77.616 77.802 77.497 77.846 77.973 77.707 77.894 77.894 77.973 77.707 77.914 78.068 77.834 78.114 77.609 77.834 78.114 77.609 77.834 78.279 78.243 77.777	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7038 39.7700 39.7679 38.2826 38.2614 38.2129 36.6092 36.6092 36.5036 36.5604 35.0514 35.0514 33.4339 34.4339 34.433	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .25508 .2514 .2520 .25543 .2546 .2549 .2571 .2574 .2576 .2598 .2601 .2649 .2649 .2649 .2649 .2649 .2649 .2649 .2638 .2638 .2698 .2701 .2704 .2726 .2726	.38924 .29702 .34213 .39040 .29796 .25585 .34325 Power W/m .65559 .71036 .76588 .65405 .70822 .76641 .65768 .71289 .77051 .65804 .71289 .77051 .71516 .77253 .66138 .71770 .77546 .66270 .71909 .60922 .66917 .72336 .56042	.07805 .07459 .07470 .07470 .07473 .07098 .07043 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343 .1986 .19896 .19891 .18500 .18463 .18465 .17242 .17242 .17440 .17209 .15927 .15927 .15984 .15927 .15984 .15982 .15982 .15982 .15982	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .19928 .19907 .18540 .18475 .18457 .17265 .17447 .17204 .15915 .15918 .15904 .15024 .15024 .14026	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.11752918018601475251558055
44067 44068 44070 44070 44071 44072 Run Pt. 45001 45002 45003 45004 45005 45006 45007 45010 45011 45012 45013 45016 45017 45018 45019 45019 45021 45021 45021 45021 45023 45024 45023 45024 45023 45024 45025 45026 45027	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.515 59.517 52.263 52.273 52.273 46.117 46.125 46.134 40.443 40.449 40.446 35.433 35.437 35.440 30.515 30.515 30.522 30.529 27.443 27.446 23.780 23.786	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.443 77.483 77.493 77.503 77.516 77.802 77.497 77.802 77.497 77.802 77.973 77.707 77.914 78.068 77.836 77.836 77.836 77.836 77.836 77.836 77.836	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 Density mol/L 39.7938 39.7700 39.7679 38.2826 38.2614 38.2826 36.6092 36.6092 36.6092 36.6092 36.5004 35.0514 35.0514 35.0514 35.0514 35.0514 36.604 37.7093 31.7795 31.7795 31.7795 31.7795 22.8626 29.8007 29.9205 28.4207 28.4307 26.6471 26.5937	.3347 .3359 .3361 .3377 .3377 .3380 Para fraction .2502 .2505 .2514 .2520 .2525 .2546 .2549 .2571 .2576 .2576 .2576 .2576 .2576 .2576 .2598 .2601 .2642 .2649 .2649 .2634 .2638 .2701 .2704 .2729 .2732	.38 924 .29 702 .34 213 .39 040 .29 796 .25 585 .34 325 Power W/m .65 559 .70 822 .76 641 .65 768 .71 289 .77 051 .65 817 .77 253 .66 138 .71 770 .71 59 .66 270 .71 909 .66 270 .71 909 .66 922 .66 917 .72 336 .56 042 .66 917	.07805 .07479 .07470 .07473 .07098 .07098 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22826 .21474 .21353 .21343 .19966 .19891 .18500 .18455 .17242 .17440 .17209 .15902 .15927 .15927 .15927 .15927 .15927 .15927 .15927 .15927 .15927 .15927 .15927 .15927 .15927 .15942 .13996	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .1928 .19907 .18540 .18457 .17265 .17447 .17265 .17457 .17265 .17467 .17204 .15915 .15918 .15904 .15096 .15096 .15096 .15096 .15004 .15024 .14012	56608281 -1.40 -1.73 -1.14 nductivity deviation expcsic. percent 1.11 1.1175291801863035250601475271552715558050 -1.10585568733524
44067 44068 44070 44071 44072 Run Pt. 45002 45003 45005 45005 45007 45008 45007 45011 45012 45013 45014 45015 45016 45017 45018 45019 45023 45023 45023 45023 45023 45023 45023 45024 45025 45025	2.525 2.524 2.524 1.160 1.160 1.159 Pressure MPa 67.360 67.359 67.359 59.513 59.515 59.517 52.263 52.273 46.117 46.125 46.134 40.449 40.456 35.437 35.437 35.440 30.515 30.522 30.522 30.529 27.448 27.446 23.780 23.785	99.835 99.318 99.786 100.139 99.649 99.141 100.092 Tempereture K 77.293 77.431 77.443 77.093 77.214 77.483 77.475 77.712 77.703 77.616 77.802 77.477 77.707 77.806 77.914 78.068 77.834 78.114 77.609 77.836 78.279 78.063	0.5465 3.0616 3.0456 3.0340 1.4025 1.4095 1.3947 0.3947 0.3947700 39.7679 38.2826 38.2	.3347 .3359 .3361 .3363 .3377 .3380 Para fraction .2502 .25508 .2514 .2520 .25543 .2546 .2549 .2571 .2574 .2576 .2598 .2601 .2649 .2649 .2649 .2649 .2649 .2649 .2649 .2638 .2638 .2698 .2701 .2704 .2726 .2726	-38924 -29702 -34213 -39040 -29796 -25585 -34325 -76588 -76588 -76588 -76588 -76588 -76588 -7128 -76945 -76945 -76945 -76945 -77051 -77	.07805 .07470 .07470 .07473 .07098 .07098 .07145 Experimental Thermal Conductivity W/m.K .24717 .24705 .24612 .22929 .22812 .22812 .22812 .21343 .19966 .19896 .19891 .18500 .18463 .18455 .17242 .17440 .17209 .15902	.002 .002 .002 .002 .002 .002 .002 .002	.07816 .07504 .07484 .07483 .07121 .07100 .07138 Adj. Thermal Con Nom. Temperature 78.0 K W/m.K .24781 .24757 .24663 .23009 .22881 .22871 .21522 .21397 .21367 .20007 .1928 .19907 .18540 .18457 .17265 .17447 .17265 .17457 .17204 .15915 .15918 .15904 .15096 .15004 .150	56608281 -1.40 -1.73 -1.14 nductivity deviation expcaic. percent 1.11 1.117529180186303525060147525152515251558050 -1.105855687335

45029	21.000	77.947	25.0679	.2754	.56194	.13170	.C02	.13174	37
45030	21.003	78.179	25.0099	.2757	.61389	.13171	.002	.13158	26
			23.5500	.2775	.51328	.12328	.002	.12340	-1.03
45031	18.653	77.819							
45032	18.656	78.033	23.4962	• 2778	.56256	.12371	•002	.12369	59
45033	18.659	78.365	23.4107	.2781	.61561	.12363	.002	.12338	51
45034	16.632	77.619	22.0876	.2829	.46700	.11620	.002	.11646	-1.32
45035	16.533	77.976	21.9925	. 2956	.51539	.11731	.002	.11733	28
			21.9118	.2834	.56560	.11720	.002	.11701	19
45036	16.634	78.280							
45037	14.589	77.825	20.2865	.2856	.46853	.10950	.002	.10961	80
45038	14.591	78.123	20.2088	.2859	•51652	•10993	•002	•10985	30
45039	14.593	78.472	20.1174	.2861	.56716	.11041	.002	.11011	.25
45040	12.981	77.733	18.7561	.2880	.42458	.10444	.002	.10461	08
45041	12.983	77.961	18.6978	.2883	.46974	.10420	.002	.10422	24
							.002	.10438	.28
45042	12.986	78.380	18.5901	.2887	.51856	.10462			
45043	12.775	78.053	18.4589	.3324	.42639	.10452	.002	•10459	.68
45044	12.774	79.263	18.4031	.3326	.47150	.10457	•002	•10440	• 6 9
45045	12.774	78.482	18.3457	.3328	.51890	.10483	.003	.10452	1.00
45046	11.967	77.733	17.6811	.3341	.38285	.10143	.003	.10160	.44
45047		78.078	17.5912	.3343	.42630	.10107	.002	.10102	.18
	11.967								
45048	11.967	78.253	17.5436	•3346	.47116	.10092	• 002	.10075	.07
45049	10.990	77.846	15.5410	.3363	.38351	.09679	•002	•09689	46
45050	10.991	78.020	16.4979	.3366	•42623	.09720	.003	.09719	00
45051	10.992	78.354	16.4154	.3368	.47220	.09731	.003	.09759	• 6 8
45052	10.220	77.798	15.6240	.3381	.38337	.09385	.002	.09398	44
45053	10.220	78.085	15.5522	.3383	.42677	.09403	.002	.09398	20
		78.611		.3385	.47385	.09445	.002	.09407	•33
45054	10.221		15.4264						
45055	9.340	77.944	14.4635	.3399	.38421	.09048	.003	.09051	31
45056	9.341	78.303	14.3819	.3401	.42797	.09132	.003	.09113	•65
45057	9.342	78.560	14.3241	.3403	.47357	.09072	.003	.09038	.01
45058	8.514	78.122	13.3115	.3416	.38512	.08728	.003	.08721	15
								.08732	.18
45059	8.515	78.397	13.2529	.3418	.42875	•08756	•003		
45050	8.515	78.722	13.1841	.3420	.47478	.08795	•003	.08751	•63
45061	7.532	77.983	11.9483	.3445	.34538	.08321	•002	.08322	17
45062	7.532	78.247	11.8958	.3447	.38624	.08366	.003	.08351	•35
45063	7.533	78.708	11.8060	.3449	.43080	.08429	.003	.08385	1.07
45064	6.335	78.221	10.1123	.3464	.34647	.07857	.003	.07843	.31
45065	6.335	78.554	10.0567	.3466	.38785	.07895	.003	.07860	.72
45066	6.336	77.820	10.1819	•3469	.30728	.07838	.003	.07849	.14
45067	5.308	78.031	8.5370	.3484	.30850	.07393	.003	.07391	04
45068	5.309	78.368	8.4904	.3486	.34743	.07427	.003	.07403	• 2 9
45069	5.309	78.699	8.4443	.3488	.38894	.07458	.003	.07413	•58
45070	4.027	78.055	6.4697	.3502	.27352	.06887	.002	.06883	.19
		79 422	6 4215	3 5 0 4	21022	06015			
45071	4.027	78.423	6.4315	.3504	•31022	.06915	.003	.06888	•39
45072	4.027	78.797	6.3931	•3506	.34961	.07004	.003	.06952	1.45
45072 45073	4.027 3.177	78.797 77.793	6.3931 5.1030		.34961 .23961				1.45
45072	4.027	78.797	6.3931	•3506 •3520	.34961 .23961	.07004 .06489	.003	.06952 .06503	1.45
45072 45073 45074	4.027 3.177 3.177	78.797 77.793 78.150	6.3931 5.1030 5.0745	•3506 •3520 •3522	.34961 .23961 .27398	•07004 •06489 •06562	.003 .002 .002	.06503 .06552	1.45 70 .16
45072 45073 45074 45075	4.027 3.177 3.177 3.177	78.797 77.793 78.150 78.573	6.3931 5.1030 5.0745 5.0412	.3506 .3520 .3522 .3524	.34961 .23961 .27398 .31109	.07004 .06489 .06562 .06599	.003 .002 .002	.06952 .06503 .06552 .06562	1.45 70 .16 .42
45072 45073 45074 45075 45076	4.027 3.177 3.177 3.177 2.028	78.797 77.793 78.150 78.573 78.170	6.3931 5.1030 5.0745 5.0412 3.2066	.3506 .3520 .3522 .3524	.34961 .23961 .27398 .31109 .24106	.07004 .06489 .06562 .06599 .06140	.003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129	1.45 70 .16 .42 07
45072 45073 45074 45075 45076 45077	4.027 3.177 3.177 3.177 2.028 2.028	78.797 77.793 78.150 78.573 78.170 78.548	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888	.3506 .3520 .3522 .3524 .3540	.34961 .23961 .27398 .31109 .24106 .27570	.07004 .06489 .06562 .06599 .06140	.003 .002 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124	1.45 70 .16 .42 07 09
45072 45073 45074 45075 45076 45077 45078	4.027 3.177 3.177 3.177 2.028 2.028 2.028	78.797 77.793 78.150 78.573 78.170 78.548 77.816	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228	.3506 .3520 .3522 .3524 .3540 .3542	.34961 .23961 .27398 .31109 .24106 .27570 .20896	.07004 .06489 .06562 .06599 .06140 .06150	.003 .002 .002 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124	1.45 70 .16 .42 07 09
45072 45073 45074 45075 45076 45077 45078 45079	4.027 3.177 3.177 3.177 2.028 2.028 2.028 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888	.3506 .3520 .3522 .3524 .3540	.34961 .23961 .27398 .31109 .24106 .27570	.07004 .06489 .06562 .06599 .06140	.003 .002 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124	1.45 70 .16 .42 07 09
45072 45073 45074 45075 45076 45077 45078	4.027 3.177 3.177 3.177 2.028 2.028 2.028	78.797 77.793 78.150 78.573 78.170 78.548 77.816	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228	.3506 .3520 .3522 .3524 .3540 .3542	.34961 .23961 .27398 .31109 .24106 .27570 .20896	.07004 .06489 .06562 .06599 .06140 .06150	.003 .002 .002 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124	1.45 70 .16 .42 07 09
45072 45073 45074 45075 45076 45077 45078 45079 45080	4.027 3.177 3.177 3.177 2.028 2.028 2.028 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514	.3506 .3520 .3522 .3524 .3540 .3542 .3544 .3562 .3563	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240	.07004 .06489 .06562 .06599 .06140 .06160 .06118 .05770	.003 .002 .002 .002 .002 .002 .003 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761	1.45 70 .16 .42 07 09 11 -1.03
45072 45073 45074 45075 45076 45077 45078 45079	4.027 3.177 3.177 3.177 2.028 2.028 2.028 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606	.3506 .3520 .3522 .3524 .3540 .3542 .3544	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002	.07004 .06489 .06562 .06599 .06140 .06150 .36118	.003 .002 .002 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130	1.45 70 .16 .42 07 09 11
45072 45073 45074 45075 45076 45077 45078 45079 45080	4.027 3.177 3.177 3.177 2.028 2.028 2.028 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514	.3506 .3520 .3522 .3524 .3540 .3542 .3544 .3562 .3563	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240	.07004 .06489 .06562 .06599 .06140 .06150 .06118 .05770 .05825	.003 .002 .002 .002 .002 .002 .003 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790	1.45 70 .16 .42 07 09 11 -1.03 50
45072 45073 45074 45075 45076 45077 45078 45079 45080	4.027 3.177 3.177 3.177 2.028 2.028 2.028 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514	.3506 .3520 .3522 .3524 .3540 .3542 .3544 .3562 .3563	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240	.07004 .06489 .065699 .06599 .06140 .06150 .05118 .05770 .05825 .05851	.003 .002 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787	1.45 70 .16 .42 07 09 11 -1.03 50 51
45072 45073 45074 45075 45077 45077 45078 45079 45080 45081	4.027 3.177 3.177 2.028 2.028 2.028 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514 1.6417	. 3506 .3520 .3524 .3540 .3542 .3544 .3562 .3563 .3564	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747	.07004 .06489 .06569 .06599 .06140 .06150 .05118 .05770 .05825 .05851 Experimental	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787	1.45 70 .16 .42 07 09 11 -1.03 50 51
45072 45073 45074 45075 45076 45077 45078 45079 45080	4.027 3.177 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6601 1.6514 1.6417	.3506 .3520 .3522 .3524 .3540 .3542 .3542 .3564 .3563 .3564	.34 961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747	.07004 .06489 .06562 .06569 .06140 .06150 .05118 .05770 .05825 .05851 Experimental Thermal	.003 .002 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787	1.45 70 .16 .42 07 09 11 -1.03 50 51 enductivity deviation expcaic.
45072 45073 45074 45075 45077 45077 45078 45079 45080 45081	4.027 3.177 3.177 2.028 2.028 2.028 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514 1.6417	. 3506 .3520 .3524 .3540 .3542 .3544 .3562 .3563 .3564	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747	.07004 .06489 .06569 .06599 .06140 .06150 .05118 .05770 .05825 .05851 Experimental	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787	1.45 70 .16 .42 07 09 11 -1.03 50 51
45072 45073 45074 45075 45076 45077 45078 45079 45080 45081	4.027 3.177 3.177 3.177 2.028 2.028 2.028 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514 1.6417	.3506 .3520 .3524 .3540 .3542 .3544 .3563 .3564	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747	.07004 .06489 .065699 .06599 .06140 .06150 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co	1.45 70 .16 .42 07 09 11 -1.03 50 51 onductivity deviation expcaic. percent
45072 45073 45074 45075 45077 45077 45078 45079 45080 45081	4.027 3.177 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6601 1.6514 1.6417	.3506 .3520 .3522 .3524 .3540 .3542 .3542 .3564 .3563 .3564	.34 961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747	.07004 .06489 .06562 .06569 .06140 .06150 .05118 .05770 .05825 .05851 Experimental Thermal	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787	1.45 70 .16 .42 07 09 11 -1.03 50 51 enductivity deviation expcaic.
45072 45073 45074 45075 45076 45077 45078 45079 45080 45081	4.027 3.177 3.177 3.177 2.028 2.028 2.028 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514 1.6417	.3506 .3520 .3522 .3524 .3540 .3542 .3563 .3563 .3564	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747	.07004 .06489 .06562 .06599 .06140 .06160 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co	1.45 70 .16 .42 07 09 11 -1.03 50 51 onductivity deviation expcaic. percent
45072 45073 45074 45075 45076 45077 45078 45079 45080 45081 Run Pt.	4.027 3.177 3.177 3.177 2.028 2.028 2.028 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.135 78.968	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66014 1.6614 1.6417	.3506 .3520 .3522 .3524 .3540 .3542 .3542 .3563 .3564	.34 961 .23 961 .273 98 .31109 .24106 .275 70 .20896 .21002 .24240 .27747	.07004 .06489 .06562 .06569 .06140 .06140 .06118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co	1.45 70 .16 .42 07 09 11 -1.03 50 51 enductivity deviation exp-caic. percent .18
45072 45073 45074 45075 45076 45077 45080 45081 Run Pt.	4.027 3.177 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature K	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66014 1.6514 1.6417	.3506 .3520 .3524 .3540 .3542 .3544 .3563 .3564 .3564 .3564	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747	.07004 .06489 .06562 .06599 .06140 .06160 .06168 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermal Co 225.0 K W/m.K	1.45 70 .16 .42 07 09 11 -1.03 50 51 enductivity edviation expcaic- percent .18 .02 13
45072 45073 45075 45075 45077 45078 45080 45081 Run Pt. 50001 50002 50003 50004	4.027 3.177 3.177 3.177 2.028 2.028 2.028 1.062 1.062 1.062 Pressure MP8 65.283 65.282 65.277 65.278	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.66514 1.66417	.3506 .3520 .3522 .3524 .3540 .3542 .3544 .3563 .3564 .3564 .3564	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747	.07004 .06489 .065699 .06599 .06140 .06150 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co 225.0 K W/m. K	1.45 70 .16 .42 07 09 11 -1.03 50 51 onductivity deviation expcaic. percent .18 .02 13
45072 45073 45075 45075 45077 45077 45080 45081 Run Pt.	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature K 224.406 225.040 225.709 226.480 224.969	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514 1.6417 Density mol/L 22.6231 22.5344 22.54830 21.8632	.3506 .3520 .3522 .3524 .3540 .3542 .3563 .3563 .3564 .3564 .3563 .2500 .2500 .2500 .2500 .2500	.34 961 .23 961 .273 98 .31109 .24106 .27570 .20896 .21002 .24240 .27747 Power W/m .48910 .68162 .90626 1.16370 .68138	.07004 .06489 .06562 .065699 .06140 .06160 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06129 .06124 .06130 .05761 .05790 .05787 dJ. Thermal Co	1.45 70 .16 .42 07 09 11 -1.03 50 51 anductivity deviation expcaic. percent .18 .02 13 .04 16
45072 45073 45075 45075 45077 45077 45080 45081 Run Pt. 50001 50002 50003 50004 50005 50006	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature 224.406 225.040 225.709 226.480 224.969 225.398	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.6617 Density mol/L 22.6231 22.5801 22.5344 22.4830 21.88348	.3506 .3522 .3524 .3540 .3542 .3542 .3563 .3563 .3564 .3563 .2500 .2500 .2500 .2500 .2500 .2500	.34961 .23961 .27398 .31109 .24106 .27570 .21002 .24240 .27747 Power W/# .48910 .68162 .90626 1.16370 .68138 .78944	.07004 .06489 .06562 .065699 .06140 .06160 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co.	1.45 70 .16 .42 07 09 11 -1.03 50 51 onductivity deviation expcaic. percent .18 .02 13 .04 16
45072 45073 45075 45075 45077 45077 45080 45081 Run Pt. 50001 50002 50003 50004 50005 50006 50007	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.936 78.968 Temperature K 224.406 225.709 226.480 224.993	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66014 1.6514 1.6617 Density mol/L 22.6231 22.5344 22.4830 21.8632 21.88348 21.7888	.3506 .3520 .3522 .3524 .3540 .3542 .3542 .3563 .3563 .3564 .3563 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747 Power W/# .48910 .68162 .90626 1.16370 .68138 .78944 1.03025	.07004 .06489 .06562 .065699 .06140 .06150 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 Thermal Co 225.0 K W/m.K .22270 .22209 .22150 .22160 .21772 .21803 .21700	1.45 70 .16 .42 07 09 11 -1.03 50 51 enductivity deviation expcaic. percent .18 .02 13 .04 16 .05 31
45072 45073 45075 45076 45077 45080 45081 Run Pt. 50001 50002 50003 50004 50005 50006 50007 50008	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062 1.062 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature 224.406 225.040 225.709 226.480 224.969 225.398	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.6617 Density mol/L 22.6231 22.5801 22.5344 22.4830 21.88348	.3506 .3522 .3524 .3540 .3542 .3542 .3563 .3563 .3564 .3563 .2500 .2500 .2500 .2500 .2500 .2500	.34961 .23961 .27398 .31109 .24106 .27570 .21002 .24240 .27747 Power W/# .48910 .68162 .90626 1.16370 .68138 .78944	.07004 .06489 .06562 .065699 .06140 .06160 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co.	1.45 70 .16 .42 07 09 11 -1.03 50 51 onductivity deviation expcaic. percent .18 .02 13 .04 16
45072 45073 45075 45075 45077 45077 45080 45081 Run Pt. 50001 50002 50003 50004 50005 50006 50007	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.936 78.968 Temperature K 224.406 225.709 226.480 224.993	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66014 1.6514 1.6617 Density mol/L 22.6231 22.5344 22.4830 21.8632 21.88348 21.7888	.3506 .3520 .3522 .3524 .3540 .3542 .3542 .3563 .3563 .3564 .3563 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747 Power W/# .48910 .68162 .90626 1.16370 .68138 .78944 1.03025	.07004 .06489 .06562 .065699 .06140 .06150 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermal Co 225.0 K W/m.K .22270 .22150 .22150 .22160 .21772 .21803 .21700 .21738	1.45 70 .16 .42 07 09 11 -1.03 50 51 enductivity deviation expcaic. percent .18 .02 13 .04 16 .05 31
45072 45073 45075 45076 45077 45080 45081 Run Pt. 50001 50002 50003 50004 50005 50006 50007 50008	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062 1.062 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature K 224.406 225.040 225.709 226.480 224.969 225.398 226.093 226.519 225.027	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514 1.6417 Density mol/L 22.6231 22.5344 22.4830 21.8632 21.8632 21.8632 21.87610 21.7610 21.0648	.3506 .3520 .3524 .3524 .3540 .3542 .3563 .3563 .3564 .3563 .3564 .3563 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.34961 .23961 .27398 .31109 .24106 .27570 .21002 .24240 .27747 Power W/m .48910 .68162 .90626 1.16370 .68138 .78944 1.03025 1.16288 .68085	.07004 .06489 .06562 .065699 .06140 .06160 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21770 .21828 .21833 .21347	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co .225.0 K W/m. K .22270 .22150 .22160 .21772 .21803 .21700 .21738 .21345	1.45 70 .16 .42 07 09 11 -1.03 50 51 anductivity deviation expcaic. percent .18 .02 13 .04 16
45072 45073 45075 45075 45077 45077 45080 45081 Run Pt. 50001 50002 50003 50006 50007 50008 50009 50010	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062 1.062 1.062 1.062 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature 224.406 225.040 225.709 226.480 224.969 225.398 226.093 226.5037 225.335	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.66514 1.6417 Density mol/L 22.6231 22.5801 22.5344 22.4830 21.8632 21.8348 21.7610 21.0648 21.0648	.3506 .3522 .3524 .3540 .3542 .3542 .3563 .3563 .3564 .3563 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	**34961 **23961 **27398 **31109 **24106 **27570 **20896 **21002 **24240 **27747 *******************************	.07004 .06489 .06562 .065699 .06140 .06160 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21347 .21363	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co.	1.45 70 .16 .42 07 09 11 -1.03 50 51 onductivity deviation exp-caic. percent .18 .02 13 .04 16 .05 31 06 17 14
45072 45073 45075 45075 45077 45077 45080 45081 Run Pt. 50001 50002 50003 50004 50005 50006 50007 50008 50009 50010	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062 1.062 1.062 1.062 1.062 1.062 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.815 78.135 78.135 78.968 Temperature 224.406 225.040 225.709 226.480 224.969 225.398 226.93 226.519 225.027 225.335 226.161	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6601 1.6514 1.6417 Density mol/L 22.6231 22.5801 22.5344 22.4830 21.8632 21.8632 21.8638 21.7610 21.0648 21.0648 20.9909	.3506 .3520 .3522 .3524 .3540 .3542 .3542 .3563 .3563 .3564 .3563 .2500	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747 .48910 .68162 .90626 1.16370 .68138 .78944 1.03025 1.16288 .68085 .78939 1.03004	.07004 .06489 .06562 .065699 .06140 .06150 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21347 .21363 .21379	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .057790 .05787 dj. Thermal Co 225.0 K W/m.K .22270 .22150 .22150 .22160 .21772 .21803 .21700 .21738 .21342 .21342	1.45 70 .16 .42 07 09 11 -1.03 50 51 enductivity deviation exp-caic. percent .18 .02 13 .04 16 .05 31 06 17
45072 45073 45075 45075 45077 45080 45081 Run Pt. 50001 50002 50003 50004 50005 50007 50008 50009 50010 50011 50012	4.027 3.177 3.177 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.028 2.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature 224.406 225.709 226.480 224.960 225.398 226.93 226.93 226.519 225.027 225.325 226.161 226.522	6.3931 5.1030 5.0745 5.0745 5.0412 3.2066 3.1888 3.2228 1.66014 1.6617 Density mol/L 22.6231 22.5801 22.5344 22.4830 21.8632 21.8638 21.7610 21.0648 21.0648 21.0648 21.0648 20.9909 20.9674	.3506 .3520 .3524 .3540 .3542 .3542 .3542 .3563 .3564 .3563 .3564 .3563 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747 Power W/# .48910 .68162 .90626 1.16370 .68138 .78944 1.03025 1.16288 .68085 .78939 1.03004 1.16261	.07004 .06489 .06562 .06569 .06599 .06140 .06160 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21347 .21363 .21379 .21415	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co 225.0 K W/m.K .22270 .22150 .22150 .22160 .21772 .21803 .21700 .21738 .21345 .21345 .21342	1.45 70 .16 .42 07 09 11 -1.03 50 51 enductivity edviation exp-caic. percent .18 .02 13 .04 16 .05 31 06 17 14
45072 45073 45075 45075 45077 45079 45080 45081 Run Pt. 50001 50002 50004 50005 50006 50007 50000 50010 50011 50012 50013	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.062 1.062 1.062 1.062 1.062 1.062 1.062 1.062 1.062 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature 224.406 225.040 225.709 226.480 224.969 225.398 226.093 226.519 225.035 226.161 226.522 225.051	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514 1.6417 Density mol/L 22.6231 22.5344 22.4830 21.8632 21.8632 21.8632 21.87610 21.7610 21.0648 21.0648 21.0648 21.0648 21.0648 21.0648 21.0648 21.0648	.3506 .3522 .3524 .3540 .3544 .3562 .3563 .3564 .3563 .3564 .3563 .3564 .2500 .255000 .25500 .25500 .255000 .255000 .255000 .255000 .255000 .25500	.34 961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747 Power W/m .48910 .68162 .90626 1.16370 .68138 .78944 1.03025 1.16288 .68085 .78939 1.03004 1.16261 .68065	.07004 .06489 .06562 .065699 .06140 .06160 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21770 .21828 .21770 .21828 .21347 .21363 .21347 .21363 .21347 .21363 .21379 .21415 .20941	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co .05787 dy. Temperature .225.0 K .22270 .22150 .22160 .21772 .21803 .21700 .21738 .21345 .21345 .21342 .21307 .21321 .20938	1.45 70 .16 .42 07 09 11 -1.03 50 51 anductivity deviation expcaic. percent .18 .02 13 .04 16 .05 31 06 17 17 05 17
45072 45073 45075 45075 45077 45077 45080 45081 Run Pt. 50001 50002 50003 50006 50007 50008 50009 50010 50011 50012 50013 50014	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature K 224.406 225.040 225.709 226.480 224.969 225.398 226.093 226.510 225.027 225.335 226.161 226.522 225.051 226.343	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.6617 Density mol/L 22.6231 22.5801 22.5344 22.4830 21.8632 21.8632 21.8638 21.7610 21.0648 21.0648 20.9909 20.9674 20.2291	.3506 .3522 .3524 .3524 .3542 .3542 .3563 .3563 .3564 .3563 .3564 .3563 .2500 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255	**34961	.07004 .06489 .06562 .065699 .06140 .06160 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21347 .21363 .21379 .21415 .20941 .20975	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co.	1.45 70 .16 .42 07 09 11 -1.03 50 51 onductivity deviation exp-caic. percent .18 .02 13 .04 16 .05 31 06 17 14 17 05
45072 45073 45075 45075 45077 45077 45080 45081 Run Pt. 50001 50002 50003 50004 50007 50008 50009 50010 50012 50013 50014 50015	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.815 78.135 78.135 78.968 Temperature 224.406 225.040 225.709 226.460 225.709 226.460 225.398 226.519 225.335 226.161 226.522 225.351 225.343 226.161	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.66514 1.6417 Density mol/L 22.6231 22.5801 22.5344 22.4830 21.8632 21.8638 21.7610 21.0648 21.0648 21.07610 21.0648 21.07610	.3506 .3522 .3524 .3540 .3542 .3542 .3563 .3563 .3564 .3563 .3564 .3563 .2500 .255000 .255000 .255000 .255	.34 961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747 Power W/m .48910 .68162 .90626 1.16370 .68138 .78944 1.03025 1.16288 .68085 .78939 1.03004 1.16261 .68065	.07004 .06489 .06562 .065699 .06140 .06160 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21770 .21828 .21770 .21828 .21347 .21363 .21347 .21363 .21347 .21363 .21379 .21415 .20941	.003 .002 .002 .002 .002 .003 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co .05787 dy. Temperature .225.0 K .22270 .22150 .22160 .21772 .21803 .21700 .21738 .21345 .21345 .21342 .21307 .21321 .20938	1.45 70 .16 .42 07 09 11 -1.03 50 51 anductivity deviation expcaic. percent .18 .02 13 .04 16 .05 31 06 17 17 05 17
45072 45073 45075 45075 45077 45077 45080 45081 Run Pt. 50001 50002 50003 50006 50007 50008 50009 50010 50011 50012 50013 50014	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature K 224.406 225.040 225.709 226.480 224.969 225.398 226.093 226.510 225.027 225.335 226.161 226.522 225.051 226.343	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.6617 Density mol/L 22.6231 22.5801 22.5344 22.4830 21.8632 21.8632 21.8638 21.7610 21.0648 21.0648 20.9909 20.9674 20.2291	.3506 .3522 .3524 .3524 .3542 .3542 .3563 .3563 .3564 .3563 .3564 .3563 .2500 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255	**34961	.07004 .06489 .06562 .065699 .06140 .06160 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21347 .21363 .21347 .21363 .21379 .21415 .20941 .20975	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co.	1.45 70 .16 .42 07 09 11 -1.03 50 51 onductivity deviation exp-caic. percent .18 .02 13 .04 16 .05 31 06 17 14 17 05
45072 45073 45075 45077 45077 45080 45080 45081 Run Pt. 50001 50002 50003 50004 50007 50008 50007 50011 50012 50013 50014 50015 50016	4.027 3.177 3.177 2.028 2.028 2.028 2.028 2.028 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.815 78.135 78.135 78.968 Temperature 224.406 225.709 226.480 224.969 225.398 226.93 226.519 225.027 225.335 226.161 226.522 225.051	0.3931 5.1030 5.0745 5.0745 5.0412 3.2066 3.1888 3.2228 1.66014 1.6617 Density mol/L 22.6231 22.5344 22.4830 21.8632 21.8632 21.8638 21.7610 21.0648 21.0648 21.0648 21.0648 21.0648 21.0648 21.7809 20.9674 20.2291 20.1489	.3506 .3520 .3524 .3540 .3542 .3542 .3563 .3564 .3563 .3564 .3563 .3564 .3563 .2500 .255000 .255000 .255000 .255	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747 .27747 .48910 .68162 .90626 1.16370 .68138 .68085 .78939 1.03024 1.16261 .68065 .78886	.07004 .06489 .06562 .065699 .06140 .06160 .05170 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21367 .21363 .21379 .21363 .21379 .21415 .20941 .20975	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .057761 .05787 Thermal Co 225.0 K W/m.K .22270 .22150 .22150 .22150 .221738 .21345 .21345 .21345 .21345 .21345 .21347 .21321 .20938 .20974 .20876	1.4570 .16 .42070911 -1.035051 anductivity deviation expcaic. percent .18 .0213 .0416 .0531061714170513012819
45072 45073 45075 45075 45077 45079 45080 45081 Run Pt. 50001 50002 50004 50005 50006 50007 50000 50011 50012 50013 50014 50015 50015 50016	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature 224.406 225.040 225.709 226.480 225.398 226.951 225.335 226.161 226.522 225.051 225.343 226.127	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514 1.6417 Density mol/L 22.6231 22.5384 22.5384 22.5384 21.8838 21.7818 21.7818 21.064	.3506 .3522 .3524 .3524 .3540 .3544 .3562 .3563 .3564 .3563 .3564 .3563 .3564 .2500 .255000 .25500 .25500 .255000 .255000 .255000 .255000 .255000 .25500	.34 961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747 Power W/m .48910 .68162 .90626 1.16370 .68138 .78944 1.03025 1.16288 .68085 .78939 1.03004 1.16261 .68065 .78886 1.02962 1.16216 .68053	.07004 .06489 .06562 .065699 .06140 .06160 .05118 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21788 .21363 .21347 .21363 .21347 .21363 .21347 .21363 .21379 .21415 .20975 .20975 .20974 .20974	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co .225.0 K W/m. K .22270 .22150 .22160 .21772 .21803 .21700 .21738 .21345 .21345 .21342 .21307 .21321 .20938 .20954 .20876 .20470	1.4570 .16 .42070911 -1.035051 anductivity deviation expcaic. percent .18 .0213 .0416 .053106171417051301281925
45072 45073 45075 45075 45077 45080 45080 45081 Run Pt. 50001 50002 50003 50006 50007 50001 50011 50012 50013 50014 50015 50016 50017 50018	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature 224.406 225.040 225.7040	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.6617 Density mol/L 22.6231 22.5801 22.5844 22.4830 21.8632 21.8638 21.7618 21.7648 21.0	.3506 .3522 .3524 .3524 .3542 .3542 .3563 .3563 .3564 .3563 .3564 .3563 .2500 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255	**34961	.07004 .06489 .06562 .06562 .065699 .06140 .06160 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21347 .21363 .21347 .21363 .21347 .21415 .20941 .20975 .20974 .20975 .20974 .20478 .20478	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai C.C. Temperature 22270 22209 22160 22172 21803 21772 21803 21770 21345 21345 21345 21345 21345 21345 21347 20470 20455	1.4570 .16 .42070911 -1.035051 principle deviation expcaic. percent .18 .0213 .0416 .05310617141705130128192528
45072 45073 45075 45077 45077 45077 45080 45080 45081 Run Pt. 50001 50002 50003 50004 50006 50007 50008 50001 50012 50013 50014 50015 50017 50018 50019	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062	78.797 77.793 78.150 78.573 78.170 78.548 77.815 78.135 78.536 78.968 Temperature 224.406 225.040 225.709 226.480 224.969 225.398 226.093 226.510 225.325 226.161 226.522 225.051 225.355 226.161 226.522 225.051 225.355 226.161 226.522 225.051	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.66514 1.6617 Density mol/L 22.6231 22.5801 22.5801 22.5801 22.5801 22.4830 21.8632 21.8638 21.7610 21.0648 21.0648 21.0648 20.9909 20.24791 20.24791 20.1489 19.3387 19.3303 19.2705	.3506 .3522 .3524 .3524 .3542 .3542 .3542 .3563 .3563 .3564 .3563 .3564 .3563 .2500 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .2550000 .255000 .255000 .255000 .255000 .255000 .2550000 .2550000 .2550000 .2550000 .25500000 .2550000000000	.34 961 .23 961 .273 98 .31109 .24106 .275 70 .20896 .21002 .24240 .27747 Power W/# .48910 .68162 .90626 1.16370 .68138 .78944 1.03025 1.16288 .68085 .78939 1.03004 1.16261 .68065 .78886 1.02962 1.16216 .68053 .78887 1.02982	.07004 .06489 .06562 .065699 .06140 .06160 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21347 .21363 .21347 .21363 .21347 .21363 .21379 .21415 .20941 .20975 .20974 .20478 .20478	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co .225.0 K W/m.K .22270 .22150 .22150 .22160 .21772 .21803 .21770 .21772 .21803 .21700 .21738 .21345 .21345 .21345 .21345 .21345 .21345 .21347 .21321 .20954 .20876 .20475 .20455 .20455	1.4570 .16 .42070911 -1.035051 principle deviation expcaic. Percent .18 .0213 .0416 .0531061714170513012819252826
45072 45073 45075 45077 45077 45077 45080 45081 Run Pt. 50001 50002 50003 50004 50007 50008 50009 50011 50012 50013 50014 50017 50018 50019 50019 50020	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062	78.797 77.793 78.150 78.548 77.815 78.170 78.548 77.815 78.135 78.736 78.135 78.736 78.968 Temperature 224.406 225.040 225.709 226.480 224.969 225.398 226.93 226.519 225.027 225.335 226.161 226.522 225.051 225.343 226.141 226.596 225.127 225.419 226.258	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66014 1.6617 Density mol/L 22.6231 22.5344 22.4830 21.8632 21.8632 21.8638 21.7610 21.0648 21.7610 21.0648 21.7610 21.7	.3506 .3522 .3524 .3540 .3542 .3542 .3542 .3563 .3563 .3564 .3563 .3564 .3563 .3564 .2500 .25500 .25500 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .2	.34961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747 .48910 .68162 .90626 1.16370 .68138 .78944 1.03025 1.16288 .68085 .78939 1.03004 1.16261 .68065 .78886 1.02962 1.16216 .68053 .7887 1.02982 1.16254	.07004 .06489 .06562 .065699 .06140 .06160 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21347 .21363 .21347 .21363 .21379 .21415 .20975 .20975 .20975 .20976 .20976 .20976 .20478 .20478 .20478	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .057761 .05787 dj. Thermal Co 225.0 K W/m.K .22270 .22150 .22150 .22160 .21772 .21803 .21700 .21738 .21345 .21345 .21345 .21346 .21346 .20938 .20938 .20954 .20876 .20470 .20455 .20494	1.4570 .16 .42070911 -1.035051 principle deviation expcaic. percent .18 .0213 .0416 .05310617170513012819282828
45072 45073 45073 45075 45077 45077 45080 45081 Run Pt. 50001 50002 50004 50007 50006 50007 50008 50009 50010 50011 50012 50013 50014 50017 50018 50017 50019 50020 50021	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.	78.797 77.793 78.159 78.5170 78.548 77.816 78.548 77.816 78.536 78.536 78.536 78.668 Temperature 224.406 225.040 225.709 226.480 225.308 226.519 225.327 225.335 226.511 226.522 225.051 225.343 226.181 226.596 225.127 225.419 226.218 226.355 225.993	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514 1.6417 Density mol/L 22.6231 22.5344 21.8632 21.863	.3506 .3522 .3524 .3524 .3540 .3544 .3562 .3563 .3564 .3563 .3564 .3563 .3564 .2500 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .2550000 .255	.34 961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747 .27747 .48910 .68162 .90626 .16370 .68138 .78944 .03025 .116288 .68085 .78939 .103004 .16261 .68065 .78886 .102962 .16216 .68053 .78887 .7888	.07004 .06489 .06562 .065699 .06140 .06160 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22215 .22295 .21770 .21828 .21770 .21828 .21770 .21828 .21347 .21363 .21347 .21363 .21347 .21363 .21347 .21363 .21379 .21415 .20975 .20941 .20975 .20974 .20481 .20594 .20594 .20594 .20594 .20594 .20594	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co .225.0 K W/m. K .22270 .22150 .22160 .21772 .21803 .21700 .21738 .21345 .21345 .21345 .21345 .21342 .21307 .21321 .20938 .20954 .20876 .20470 .20475 .20494 .20099	1.4570 .16 .42070911 -1.035051 anductivity deviation expcaic. percent .18 .0213 .0416 .0531061714170513012819252826 .0801
45072 45073 45075 45075 45077 45077 45080 45081 850002 50003 50006 50007 50008 50009 50010 50011 50012 50013 50014 50015 50016 50017 50018 50019 50019 50019 50010 50011 50012 50013 50014 50015 50016 50017 50018 50019 50019 50019	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature 224.406 225.040 225.040 225.7040	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.6617 Density mol/L 22.6231 22.5801 22.5844 22.4830 21.8632 21.8632 21.8638 21.7688 21.7	.3506 .3522 .3524 .3524 .3542 .3542 .3542 .3563 .3564 .3563 .3564 .3563 .3564 .2500 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255	.34 961 .23961 .27978 .31109 .24106 .27570 .21002 .24240 .27747 .20896 .21002 .24240 .27747 .48910 .68162 .90626 1.1636 .78944 1.03025 1.1628 .68085 .78939 1.03024 1.1626 .68055 .78886 1.02962 1.1625 .68053 .78887 1.02982 1.1625 .68078 .78887	.07004 .06489 .06562 .06562 .06599 .06140 .06160 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21770 .21828 .21763 .21347 .21363 .21347 .21363 .21347 .21363 .21347 .21415 .20975 .20974 .20975 .20974 .20975 .20974 .20478 .20481 .20594 .20105 .20105 .20105	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .057761 .05787 dj. Thermal Co 225.0 K W/m.K .22270 .22150 .22150 .22160 .21772 .21803 .21700 .21738 .21345 .21345 .21345 .21346 .21346 .20938 .20938 .20954 .20876 .20470 .20455 .20494	1.4570 .16 .42070911 -1.035051 principle deviation expcaic. percent .18 .0213 .0416 .05310617170513012819282828
45072 45073 45075 45075 45077 45080 45080 45081 Run Pt. 50001 50002 50003 50004 50006 50007 50008 50009 50010 50011 50012 50013 50014 50015 50017 50016 50017 50017 50019 50020 50021 50022 50023	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.	78.797 77.793 78.159 78.5170 78.548 77.816 78.548 77.816 78.536 78.536 78.536 78.668 Temperature 224.406 225.040 225.709 226.480 225.308 226.519 225.327 225.335 226.511 226.522 225.051 225.343 226.181 226.596 225.127 225.419 226.218 226.355 225.993	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.6606 1.6514 1.6417 Density mol/L 22.6231 22.5344 21.8632 21.863	.3506 .3522 .3524 .3524 .3540 .3544 .3562 .3563 .3564 .3563 .3564 .3563 .3564 .2500 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .2550000 .255	.34 961 .23961 .27398 .31109 .24106 .27570 .20896 .21002 .24240 .27747 .27747 .48910 .68162 .90626 .16370 .68138 .78944 .03025 .116288 .68085 .78939 .103004 .16261 .68065 .78886 .102962 .16216 .68053 .78887 .7888	.07004 .06489 .06562 .065699 .06140 .06160 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22215 .22295 .21770 .21828 .21770 .21828 .21770 .21828 .21347 .21363 .21347 .21363 .21347 .21363 .21347 .21363 .21379 .21415 .20975 .20941 .20975 .20974 .20481 .20594 .20594 .20594 .20594 .20594 .20594	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co .225.0 K W/m. K .22270 .22150 .22160 .21772 .21803 .21700 .21738 .21345 .21345 .21345 .21345 .21342 .21307 .21321 .20938 .20954 .20876 .20470 .20475 .20494 .20099	1.4570 .16 .42070911 -1.035051 anductivity deviation expcaic. percent .18 .0213 .0416 .0531061714170513012819252826 .0801
45072 45073 45075 45075 45077 45077 45080 45081 850002 50003 50006 50007 50008 50009 50010 50011 50012 50013 50014 50015 50019 50019 50019 50019 50019 50019 50010 50011 50012 50013 50014 50015 50016 50017 50018 50019 50019 50019	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.536 78.968 Temperature 224.406 225.040 225.040 225.7040	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.66514 1.6617 Density mol/L 22.6231 22.5801 22.5801 22.5801 22.5801 22.6832 21.8632 21.8632 21.8632 21.8632 21.7610 21.0648 21.7648 20.9909 20.9674 20.2291 20.1480 19.3387 19.3203 19.2705 19.2446 18.4304 18.43536	.3506 .3522 .3524 .3524 .3542 .3542 .3542 .3542 .3563 .3564 .3563 .3564 .3563 .3564 .2500 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .2550000 .255	.34 961 .23 961 .273 98 .31109 .24106 .275 70 .20896 .21002 .24240 .27747 Power W/# .48910 .68162 .90626 1.16370 .68138 .78944 1.03025 1.16288 .68085 .78939 1.03004 1.16261 .68065 .78886 1.02962 1.16216 .68053 .78887 1.02982 1.16254 .68078 .78887 1.02982 1.16254 .78881 1.02983	.07004 .06489 .06562 .06562 .06599 .06140 .06160 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21347 .21363 .21347 .21363 .21347 .21363 .21347 .21363 .21347 .20941 .20975 .20941 .20975 .20941 .20975 .20942 .20978 .209481 .20594 .20105 .20087 .20120	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co. .05787 dy. Temperature .225.0 K .22270 .22150 .22150 .22150 .221772 .21803 .21772 .21803 .21770 .21772 .21803 .21770 .21772 .21803 .21770 .21342 .21342 .21347 .20954 .20954 .20876 .20455 .20455 .20455 .20455 .20455 .20455 .20494 .20099 .20055 .20038	1.4570 .16 .42070911 -1.035051 principle deviation expcaic. Percent .18 .0213 .0416 .053106171417051301281925281925281925281714
45072 45073 45075 45077 45077 45077 45080 45080 45081 Run Pt. 50001 50002 50003 50004 50007 50008 50007 50011 50012 50013 50014 50015 50016 50017 50018 50019 50020 50021 50023 50024	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.	78.797 77.793 78.150 78.573 78.170 78.548 77.816 78.135 78.736 78.968 Temperature 224.406 225.040 225.709 226.480 224.969 225.398 226.519 225.325 226.511 226.522 225.051 225.343 226.161 226.522 225.051 225.343 226.161 226.522 225.053 225.355 226.251 225.353 226.161 226.522 225.053	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66014 1.6617 Density mol/L 22.6231 22.5801 22.5344 22.4830 21.8632 21.8632 21.8638 21.7610 21.0648 21.7610 21.0648 21.7610 21.0648 21.7610 21.7610 21.7610 21.7610 21.7610 21.8632 21.8	.3506 .3522 .3524 .3524 .3540 .3542 .3542 .3542 .3563 .3564 .3563 .3564 .3563 .3564 .2500 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255	.34 961 .23 961 .273 98 .31109 .24106 .275 70 .20 896 .21002 .24 240 .27747 .48 910 .68 162 .90626 1.16 370 .68 138 .78 944 1.03 025 1.16 288 .68 085 .78 939 1.03 004 1.16 261 .68 055 .78 88 7 1.02 962 1.16 216 .68 078 .78 88 7 1.02 962 1.16 254 .68 078 .78 88 7 1.02 962 1.16 254 .68 078 .78 88 7 1.02 982 1.16 254 .68 078 .78 88 7 1.02 982 1.16 212	.07004 .06489 .06562 .065699 .06140 .06160 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21347 .21363 .21347 .21363 .21347 .21363 .21379 .21415 .20975 .20975 .20975 .20975 .20976 .20977 .20976 .20977 .20120 .20132	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermal Co 225.0 K W/m.K .22270 .22150 .22150 .22160 .21772 .21803 .21700 .21738 .21345 .21345 .21345 .21345 .21346 .21346 .21347 .21321 .20954 .20876 .20470 .20455 .20497 .20497 .20497 .20497 .20499 .20038 .20038 .20038	1.4570 .16 .42070911 -1.035051 principle deviation expcaic. percent .18 .0213 .0416 .05310617141705130128192826 .0801171616
45072 45073 45075 45075 45077 45080 45080 45081 Run Pt. 50001 50002 50003 50004 50006 50007 50008 50009 50010 50011 50012 50013 50014 50015 50017 50016 50017 50017 50019 50020 50021 50022 50023	4.027 3.177 3.177 2.028 2.028 2.028 2.028 1.062 1.	78.797 77.793 78.150 78.548 77.8150 78.548 77.816 78.135 78.536 78.968 Temperature 224.406 225.040 225.709 226.480 224.969 225.398 226.933 226.5161 226.522 225.027 225.335 226.161 226.522 225.051 225.343 226.141 226.596 225.499 225.499 225.591	6.3931 5.1030 5.0745 5.0412 3.2066 3.1888 3.2228 1.66514 1.66514 1.6617 Density mol/L 22.6231 22.5801 22.5801 22.5801 22.5801 22.6832 21.8632 21.8632 21.8632 21.8632 21.7610 21.0648 21.7648 20.9909 20.9674 20.2291 20.1480 19.3387 19.3203 19.2705 19.2446 18.4304 18.43536	.3506 .3522 .3524 .3524 .3542 .3542 .3542 .3542 .3563 .3564 .3563 .3564 .3563 .3564 .2500 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .255000 .2550000 .255	.34 961 .23 961 .273 98 .31109 .24106 .275 70 .20896 .21002 .24240 .27747 Power W/# .48910 .68162 .90626 1.16370 .68138 .78944 1.03025 1.16288 .68085 .78939 1.03004 1.16261 .68065 .78886 1.02962 1.16216 .68053 .78887 1.02982 1.16254 .68078 .78887 1.02982 1.16254 .78881 1.02983	.07004 .06489 .06562 .06562 .06599 .06140 .06160 .05770 .05825 .05851 Experimental Thermal Conductivity W/m.K .22233 .22212 .22195 .22253 .21770 .21828 .21768 .21833 .21347 .21363 .21347 .21363 .21347 .21363 .21347 .21363 .21347 .20941 .20975 .20941 .20975 .20941 .20975 .20942 .20978 .209481 .20594 .20105 .20087 .20120	.003 .002 .002 .002 .003 .002 .002 .002	.06952 .06503 .06552 .06562 .06129 .06124 .06130 .05761 .05790 .05787 dj. Thermai Co. .05787 dy. Temperature .225.0 K .22270 .22150 .22150 .22150 .221772 .21803 .21772 .21803 .21770 .21772 .21803 .21770 .21772 .21803 .21770 .21342 .21342 .21347 .20954 .20954 .20876 .20455 .20455 .20455 .20455 .20455 .20455 .20494 .20099 .20055 .20038	1.4570 .16 .42070911 -1.035051 principle deviation expcaic. Percent .18 .0213 .0416 .053106171417051301281925281925281925281714

50027	44.611	226.418	17.4246	.2500	1.03017	.19740	.001	.19655	01
50028	44.611	226.901	17.3961	.2500	1.16261	.19758	.001	.19644	01
50029	41.030	225.294	16.4687	• 2500	.68081	•19321	•002	•19303	•24
50030	41.031	225.672	16.4470	. 2500	.78914	.19292	.002	.19252	•02
50031	41.031	226.629	16.3924	• 2500	1.02971	•19313	.001	.19216	05
50032	41.032	227.009	16.3710	.2500	1.16262	.19324	.001	•19204	07
50033	37.511	225.384	15.4083	• 2500	.68071	.18842	.002	.18819	09
			15.3907						
50034	37.512	225.703		•2500	.78927	.18876	.002	•18834	•02
50035	37.512	226.659	15.3377	.2500	1.03010	.18885	.001	•18786	12
50035	37.512	227.098	15.3143	.2500	1.16273	.18923	.001	.18799	01
				.2500	.68061				
50037	34.124	225.484	14.3365			.18418	.002	.18389	25
50038	34.124	224.937	14.3652	• 2500	.58040	.18403	•002	.18407	21
50039	34.124	226.279	14.2946	.2500	.90542	.18497	.002	•18422	•01
50040	34.124	226.703	14.2724	. 2500	1.03010	.18526	.001	.18426	.08
50041	30.527	225.093	13.1650	.2500	.58067	.18017	.003	•18012	05
50042	30.526	225.453	13.1468	.2500	.68068	.18052	.002	•18026	•06
50043	30.527	226.365	13.1018	.2500	.90543	.18062	.001	.17982	09
50C44	30.527	226.871	13.0771	• 2500	1.02995	.18122	.001	.18013	•12
50045	26.973	225.120	11.9219	•2500	•58053	.17628	.002	•17621	•07
50046	26.973	225.528	11.9030	.2500	.68059	.17621	.002	.17590	07
50047			11.8622		.90552	.17675	.001		
	26.973	226.416		. 2500				•17593	•02
50048	26.973	226.973	11.8368	.2500	1.03002	•17691	.001	•17576	03
50049	23.907	225.201	10.7929	.2500	.58043	.17226	•002	.17214	24
50050	23.907	225.602	10.7755	.2500	.68076		.002		05
						•17277		•17242	
50 0 51	23.907	226.471	10.7389	• 2500	.90574	• 17324	.002	•17239	00
50052	23.907	227.050	10.7143	.2500	1.03022	.17340	.001	.17221	06
50053	21.069	224.922	9.7146	.2500	.48835	.16888	.003	.16892	26
50054	21.068	225.2 6 6	9.7008	•2500	•58053	.16939	•002	•16924	06
5 0055	21.068	226.169	9.6654	. 2500	.78944	.16990	.002	•16923	00
50056	21.067	226.639	0.6471	. 2500	.90587	.17017	.001	.16923	.03
50057	18.640	224.632	8.7540	•2500	.40474	•16670	.004	•16691	.14
50058	18.641	225.029	8.7399	• 2500	•48892	.16758	.003	•16756	•55
50059	18.641	225.797	8.7126	.2500	.68159	.16773	.002	.16727	.43
50060	18.640	226.240			.79018		.002		•05
			8.6966	•2500		•16732		•16661	
50061	16.404	224.567	7.8290	• 2500	.40372	•16424	•003	•16449	•18
50062	16.403	224.976	7.8153	.2500	.48778	.16458	.003	.16459	•26
50063	15.403	225.826	7.7878	.2500	.68015	.16488	.002	.16441	•20
50064	16.404	226.249	7.7744	•2500	.78850	.16496	.002	.16415	•06
50065	14.229	224.508	6.8981	• 2500	.40439	.16101	.004	.16129	32
50066	14.228	224.867	6.8874	. 2500	.48878	.16211	.003	.16219	.25
50067	14.228	225.835	6.8593	•2500	.68147	.16248	•002	•16200	.18
50068	14.228	226.343	6.8449	• 2500	.79019	•162 6 1	•002	•16184	•11
50069	12.350	224.588	6.0651	. 2500	.40429	.15974	.004	.15997	.14
50070	12.350								
		224.187	6.0754	.2500	.32798	.15946	.005	.15992	•09
50071						•16011	.002	•15992	.13
	12.350	225.330	6.0460	.2500	.58097	•16011	.002	.15992	•13
50072	12.350 12.349	225.330 225.790	6.0460 6.0339	•2500 •2500	.58097 .68139	•16011 •16071	.002	•15992 •16026	•13 •36
50072 50073	12.350 12.349 10.330	225.330 225.790 224.211	6.0460 6.0339 5.1543	.2500 .2500 .2500	.58097 .68139 .32798	•16011 •16071 •15756	.002 .002	•15992 •16026 •15801	•13 •36 •26
50072	12.350 12.349	225.330 225.790	6.0460 6.0339	•2500 •2500	.58097 .68139	•16011 •16071	.002	•15992 •16026	•13 •36
50072 50073 50074	12.350 12.349 10.330 10.330	225.330 225.790 224.211 224.544	6.0460 6.0339 5.1543 5.1468	.2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421	.16011 .16071 .15756 .15745	.002 .002 .006	•15992 •16026 •15801 •15771	.13 .36 .26 .08
50072 50073 50074 50075	12.350 12.349 10.330 10.330 10.329	225.330 225.790 224.211 224.544 225.389	6.0460 6.0339 5.1543 5.1468 5.1280	.2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080	.16011 .16071 .15756 .15745 .15785	.002 .002 .006 .004	.15992 .16026 .15801 .15771 .15763	.13 .36 .26 .08
50072 50073 50074 50075 50076	12.350 12.349 10.330 10.330 10.329 10.329	225.330 225.790 224.211 224.544 225.389 225.927	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160	.2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119	.16011 .16071 .15756 .15745 .15785 .15806	.002 .002 .006 .004 .002	.15992 .16026 .15801 .15771 .15763 .15753	.13 .36 .26 .08 .06
50072 50073 50074 50075	12.350 12.349 10.330 10.330 10.329	225.330 225.790 224.211 224.544 225.389	6.0460 6.0339 5.1543 5.1468 5.1280	.2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080	.16011 .16071 .15756 .15745 .15785	.002 .002 .006 .004	.15992 .16026 .15801 .15771 .15763	.13 .36 .26 .08
50072 50073 50074 50075 50076 50077	12.350 12.349 10.330 10.330 10.329 10.329 8.287	225.330 225.790 224.211 224.544 225.389 225.927 224.279	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935	.2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790	.16011 .16071 .15756 .15745 .15785 .15806 .15431	.002 .006 .004 .002 .002	.15992 .16026 .15801 .15771 .15763 .15753	.13 .36 .26 .08 .06 .01
50072 50073 50074 50075 50076 50077 50078	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286	225.330 225.790 224.211 224.544 225.389 225.927 224.279 224.626	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935 4.1870	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546	.002 .006 .004 .002 .002 .005	.15992 .16026 .15801 .15771 .15763 .15753 .15472	.13 .36 .26 .08 .06 .01 45
50072 50073 50074 50075 50076 50077 50078 50079	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.286	225.330 225.790 224.211 224.544 225.389 225.927 224.279 224.626 225.577	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935 4.1870 4.1697	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546	.002 .006 .004 .002 .002 .005 .004	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567	.13 .36 .26 .08 .06 .01 45 .17
50072 50073 50074 50075 50076 50077 50078 50079 50080	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.286 8.285	225.330 225.790 224.211 224.544 225.389 225.927 224.279 224.626 225.577	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935 4.1870 4.1697 4.1610	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15560	.002 .006 .004 .002 .002 .005 .004	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527	.13 .36 .26 .08 .06 .01 45 .17 06
50072 50073 50074 50075 50076 50077 50078 50079	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.286 8.285	225.330 225.790 224.211 224.544 225.389 225.927 224.279 224.626 225.577	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935 4.1870 4.1697 4.1610	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15560	.002 .006 .004 .002 .002 .005 .004	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527	.13 .36 .26 .08 .06 .01 45 .17
50072 50073 50074 50075 50076 50077 50078 50079 50080 50081	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.286 8.285 6.214	225.330 225.790 224.211 224.544 225.389 225.927 224.279 224.626 225.577 226.039 224.310	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935 4.1870 4.1697 4.1610 3.1905	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15560 .15585	.002 .006 .004 .002 .005 .004 .003	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527 .15526	.13 .36 .26 .08 .06 .01 45 .17 06
50072 50073 50074 50075 50076 50077 50078 50079 50080 50081 50082	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.286 8.285 6.214 6.213	225.330 225.790 224.211 224.544 225.389 225.927 224.279 224.626 225.577 226.039 224.310 224.667	6.0460 6.0339 5.1543 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15560 .15585 .15299	.002 .002 .006 .004 .002 .005 .004 .003 .002	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527 .15526 .15338	.13 .36 .26 .08 .06 .01 45 .17 06 06
50072 50073 50074 50076 50077 50078 50079 50080 50081 50082 50083	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.286 8.285 6.214 6.213	225.330 225.790 224.211 224.544 225.389 225.927 224.279 224.626 225.577 226.039 224.302	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15599 .15291	.002 .002 .006 .004 .002 .005 .004 .003	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527 .15526 .15338 .15310 .15290	.13 .36 .26 .08 .06 .01 45 .17 06 06
50072 50073 50074 50075 50076 50077 50078 50079 50080 50081 50082	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.286 8.285 6.214 6.213	225.330 225.790 224.211 224.544 225.389 225.927 224.279 224.626 225.577 226.039 224.310 224.667	6.0460 6.0339 5.1543 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15560 .15585 .15299	.002 .002 .006 .004 .002 .005 .004 .003 .002	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527 .15526 .15338	.13 .36 .26 .08 .06 .01 45 .17 06 06
50072 50073 50074 50075 50076 50077 50079 50080 50081 50082 50083	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.286 8.285 6.214 6.213 6.213	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.310 224.667 225.569	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1723 3.1635	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15560 .15585 .15299 .15291 .15322	.002 .002 .006 .004 .002 .005 .004 .003 .002 .005	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527 .15526 .15338 .15310 .15290	.13 .36 .26 .08 .06 .01 45 .17 06 06
50072 50073 50074 50075 50076 50077 50078 50079 50080 50081 50082 50083 50084	12.350 12.349 10.330 10.330 10.329 8.287 8.286 8.286 8.285 6.214 6.213 6.213 4.288	225.330 225.790 224.211 224.554 225.389 225.927 224.279 224.626 225.577 226.039 224.667 225.569 224.910	6.0460 6.0339 5.1543 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58090 .40516	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15560 .15585 .15299 .15291 .15361 .15361	.002 .006 .004 .002 .005 .004 .003 .002 .005 .004	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 08 20
50072 50073 50074 50075 50076 50077 50079 50080 50081 50082 50083 50084 50086	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 4.288 4.288	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 224.6039 224.310 224.667 225.569 224.928	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935 4.1870 4.1697 4.1610 3.1850 3.1723 3.1635 2.2254 2.2169	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239	.16011 .16071 .157756 .15745 .15785 .15806 .15546 .15560 .15585 .15299 .15291 .15322 .15361 .15079	.002 .002 .006 .004 .002 .005 .004 .003 .002 .005 .004	.15992 .16026 .15801 .15771 .15763 .15773 .15472 .15567 .15526 .15338 .15310 .15290 .15293 .15083	.13 .36 .26 .08 .06 .01 45 .17 06 06 09 08 20 16 26
50072 50073 50074 50075 50076 50077 50079 50080 50081 50082 50083 50084 50086 50087	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.286 8.285 6.214 6.213 6.213 6.213 4.288 4.288	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.928 225.780 224.328	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118	.002 .002 .006 .004 .002 .005 .004 .003 .005 .004 .002 .002	.15992 .16026 .15801 .15771 .15763 .15773 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15083	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 08 20 16 26
50072 50073 50074 50075 50076 50077 50079 50080 50081 50082 50083 50084 50086	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 4.288 4.288	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 224.6039 224.310 224.667 225.569 224.928	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935 4.1870 4.1610 3.1850 3.1723 3.1635 2.2254 2.2169	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239	.16011 .16071 .157756 .15745 .15785 .15806 .15546 .15560 .15585 .15299 .15291 .15322 .15361 .15079	.002 .002 .006 .004 .002 .005 .004 .003 .002 .005 .004	.15992 .16026 .15801 .15771 .15763 .15773 .15472 .15567 .15526 .15338 .15310 .15290 .15293 .15083	.13 .36 .26 .08 .06 .01 45 .17 06 06 09 08 20 16 26
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50087	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 4.288 4.288 4.288 2.236	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.310 224.667 225.569 224.928 225.780 226.328 226.328	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118	.002 .002 .006 .004 .002 .005 .004 .003 .002 .004 .002 .004	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15083 .15074	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 08 20 16 26 31
50072 50073 50074 50075 50077 50077 50079 50080 50081 50082 50084 50086 50087 50088 50088	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.286 8.285 6.214 6.213 6.213 4.288 4.288 4.288 4.288 2.236 2.235	225.330 225.790 224.211 224.544 225.389 225.927 224.279 224.626 225.577 226.039 224.310 224.667 225.569 224.928 225.780 226.328 225.780 226.328 226.328	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1850 3.1635 2.2254 2.2169 2.2116 1.1791	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15560 .15585 .15299 .15299 .15322 .15361 .15079 .15118 .15165	.002 .002 .006 .004 .002 .005 .004 .002 .005 .004 .002 .002	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 08 20 16 26 31 19
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50088 50089 50089	12.350 12.349 10.330 10.330 10.329 10.329 8.286 8.285 6.213 6.213 6.213 4.288 4.288 4.288 4.288 2.236 2.235 2.235	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.667 225.569 224.780 224.780 224.928 225.780 226.328 224.950 224.950	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1870 4.1677 4.1610 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977	.16011 .16071 .157756 .15745 .15785 .15806 .15431 .15546 .15580 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14885	.002 .002 .004 .002 .002 .003 .002 .004 .002 .004 .002 .002 .003 .002	.15992 .16026 .15801 .15771 .15763 .15773 .15472 .15567 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888	.13 .36 .26 .08 .06 .01 45 .17 06 06 08 20 16 31 19 .00
50072 50073 50074 50075 50077 50077 50079 50080 50081 50082 50084 50086 50087 50088 50088	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.286 8.285 6.214 6.213 6.213 4.288 4.288 4.288 4.288 2.236 2.235	225.330 225.790 224.211 224.544 225.389 225.927 224.279 224.626 225.577 226.039 224.310 224.667 225.569 224.928 225.780 226.328 225.780 226.328 226.328	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1850 3.1635 2.2254 2.2169 2.2116 1.1791	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15560 .15585 .15299 .15299 .15322 .15361 .15079 .15118 .15165	.002 .002 .006 .004 .002 .005 .004 .002 .005 .004 .002 .002	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 08 20 16 26 31 19
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50088 50089 50090 50090	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.286 8.285 6.214 6.213 6.213 6.213 4.288 4.288 4.288 2.236 2.235 2.235 2.234	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.928 225.780 224.510 224.510 224.510	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .58250	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15291 .15291 .15322 .15361 .15079 .15118 .15165 .14844 .14885	.002 .002 .004 .002 .005 .005 .005 .005 .004 .002 .005 .004 .002 .007 .005	.15992 .16026 .15801 .15771 .15763 .15773 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15083 .15090 .14912 .14888 .14923	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 08 20 16 26 31 19 .00
50072 50073 50074 50075 50076 50077 50080 50081 50082 50084 50086 50087 50087 50089 50090 50090	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 4.288 4.288 4.288 2.236 2.235 2.235 2.235	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.928 225.780 224.928 225.780 224.928 225.780 224.950 225.450	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 1.1791 1.1764 1.1736	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .58250 .32877	.16011 .16071 .15756 .15745 .15785 .15806 .1546 .15546 .15585 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885	.002 .002 .004 .002 .005 .005 .004 .002 .007 .002	.15992 .16026 .15801 .15771 .15763 .15773 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15083 .15074 .15090 .14912 .14888 .14923 .14901	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 08 20 16 26 31 19 .00 15
50072 50073 50074 50075 50076 50077 50080 50081 50082 50084 50086 50087 50089 50089 50090 50091	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 4.288 4.288 4.288 4.288 2.236 2.235 2.235 2.235	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.928 225.750 226.196 224.928 225.750 226.328 225.750 226.328 225.750 226.328	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1870 4.1610 3.1905 3.1723 3.1635 2.2254 2.216 1.1791 1.1764 1.1736 1.1707 4.670	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .68118 .32782 .40408 .58060 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .58250 .32877 .58250	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14956	.002 .002 .004 .002 .005 .004 .002 .005 .004 .002 .005 .004 .003 .007 .005 .007	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15074 .15090 .14912 .14888 .14923 .14901 .14978	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 20 16 26 31 19 .00 15 .09
50072 50073 50074 50075 50076 50077 50080 50081 50082 50084 50086 50087 50087 50089 50090 50090	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 4.288 4.288 4.288 2.236 2.235 2.235 2.235	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.928 225.780 224.928 225.780 224.928 225.780 224.950 225.450	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 1.1791 1.1764 1.1736	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .58250 .32877	.16011 .16071 .15756 .15745 .15785 .15806 .1546 .15546 .15585 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885	.002 .002 .004 .002 .005 .005 .004 .002 .007 .002	.15992 .16026 .15801 .15771 .15763 .15773 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15083 .15074 .15090 .14912 .14888 .14923 .14901	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 08 20 16 26 31 19 .00 15
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50089 50090 50091 50092 50093 50094 50095	12.350 12.349 10.330 10.330 10.329 8.287 8.286 8.285 6.213 6.213 6.213 6.213 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.237 877	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.928 224.928 225.780 226.328 224.950 224.950 224.950 224.950 224.950	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1870 4.1697 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 4.678 4.678	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .68118 .32782 .40408 .58060 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .58250 .32877 .58250	.16011 .16071 .157756 .15745 .15785 .15806 .15431 .15546 .15580 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14885 .14949 .14956 .14956 .14970	.002 .002 .004 .002 .005 .004 .002 .005 .004 .002 .005 .004 .003 .007 .005 .007	.15992 .16026 .15801 .15771 .15763 .15753 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15074 .15090 .14912 .14888 .14923 .14901 .14978	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 20 16 26 31 19 .00 15 .09
50072 50073 50074 50075 50076 50077 50080 50081 50082 50084 50086 50087 50089 50089 50090 50091	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 4.288 4.288 4.288 4.288 2.236 2.235 2.235 2.235	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.928 225.750 226.196 224.928 225.750 226.328 225.750 226.328 225.750 226.328	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1870 4.1610 3.1905 3.1723 3.1635 2.2254 2.216 1.1791 1.1764 1.1736 1.1707 4.670	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .58250 .32877 .26030 .40508	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14956	.002 .002 .004 .002 .005 .004 .003 .002 .005 .004 .002 .007 .005 .004 .003 .007 .004 .003 .007	.15992 .16026 .15801 .15771 .15763 .15773 .15772 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14773	.13 .36 .26 .08 .06 .0145 .170606082016263119 .0015 .0906 .7213
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50089 50090 50091 50092 50093 50094 50095	12.350 12.349 10.330 10.330 10.329 8.287 8.286 8.285 6.213 6.213 6.213 6.213 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.237 877	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.928 224.928 225.780 226.328 224.950 224.950 224.950 224.950 224.950	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1870 4.1697 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 4.678 4.678	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .58250 .32877 .26030 .40508	.16011 .16071 .15756 .15745 .15785 .15806 .1546 .15585 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14956 .14956 .14704 .14704	.002 .002 .004 .002 .005 .004 .003 .002 .005 .004 .002 .007 .005 .004 .003 .007 .004 .003 .007	.15992 .16026 .15801 .15771 .15763 .15773 .15472 .15567 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15083 .15074 .14912 .14888 .14923 .14901 .14878 .14777	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 08 20 16 31 19 .00 15 .09 06
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50089 50090 50091 50092 50093 50094 50095	12.350 12.349 10.330 10.330 10.329 8.287 8.286 8.285 6.213 6.213 6.213 6.213 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.237 877	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.928 224.928 225.780 226.328 224.950 224.950 224.950 224.950 224.950	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1870 4.1697 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 4.678 4.678	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .58250 .32877 .26030 .40508	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14956 .14779 .14814	.002 .002 .004 .002 .005 .004 .003 .002 .005 .004 .002 .007 .005 .004 .003 .007 .004 .003 .007	.15992 .16026 .15801 .15771 .15763 .15773 .15767 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermal Con	.13 .36 .26 .08 .06 .0145 .170606 .09082016263119 .0015 .0906 .0908 .00015 .0906 .090800015 .0906 .0906 .0908
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50089 50090 50091 50092 50093 50094 50095	12.350 12.349 10.330 10.330 10.329 8.287 8.286 8.285 6.213 6.213 6.213 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.237 877	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.928 224.928 225.780 226.328 224.950 224.950 224.950 224.950 224.950	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1870 4.1697 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 4.678 4.678	.2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .58250 .32877 .26030 .40508	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14976 .14779 .14814	.002 .002 .004 .002 .005 .004 .003 .002 .005 .004 .002 .007 .005 .004 .003 .007 .004 .003 .007	.15992 .16026 .15001 .15771 .15763 .15773 .15763 .15772 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14773 .14777 .14783 Adj. Thermal Con	.13 .36 .26 .08 .06 .01 45 .17 06 06 .09 08 20 16 31 19 .00 15 .09 06
50072 50073 50074 50075 50076 50077 50080 50081 50082 50084 50086 50088 50088 50089 50090 50091 50092 50093 50094 50095	12.350 12.349 10.330 10.330 10.329 8.287 8.286 8.285 6.213 6.213 6.213 4.288 4.288 4.288 2.236 2.235 2.235 2.235 2.235 2.235 2.235 2.235	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.667 225.569 224.928 225.780 226.328 224.950 224.950 224.950 224.950 224.950 225.974 225.974 225.974	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1697 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 .4678 .4657 .4657	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .26030 .40508 .40508	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14976 .14779 .14814	.002 .002 .004 .002 .005 .004 .003 .002 .005 .004 .002 .007 .005 .004 .003 .007 .007 .005 .007	.15992 .16026 .15001 .15771 .15763 .15773 .15763 .15772 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14773 .14777 .14783 Adj. Thermal Con	.13 .36 .26 .08 .06 .0145 .17060609082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50089 50090 50091 50092 50093 50094 50095	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.286 8.285 6.214 6.213 6.213 6.213 4.288 4.288 4.288 2.236 2.235 2.235 2.234 877 877 876	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.928 225.780 226.328 224.510 224.950 225.455 225.555 225.455 225.555	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1704 4.670 4.6670 4.645	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32792 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40508 .48977 .26030 .40508 .48972	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15580 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14844 .14885 .14949 .14956 .14976 .1	.002 .002 .004 .002 .005 .004 .003 .002 .005 .004 .002 .007 .005 .004 .003 .007 .004 .003 .007	.15992 .16026 .15001 .15771 .15763 .15773 .15753 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermmi Con Nom. Temperature 275.0 K	.13 .36 .26 .08 .06 .0145 .170606 .09082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic.
50072 50073 50074 50075 50076 50077 50080 50081 50082 50084 50086 50088 50088 50089 50090 50091 50092 50093 50094 50095	12.350 12.349 10.330 10.330 10.329 8.287 8.286 8.285 6.213 6.213 6.213 4.288 4.288 4.288 2.236 2.235 2.235 2.235 2.235 2.235 2.235 2.235	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.667 225.569 224.928 225.780 226.328 224.950 224.950 224.950 224.950 224.950 225.974 225.974 225.974	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1697 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 .4678 .4657 .4657	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .26030 .40508 .40508	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14976 .14779 .14814	.002 .002 .004 .002 .005 .004 .003 .002 .005 .004 .002 .007 .005 .004 .003 .007 .007 .005 .007	.15992 .16026 .15001 .15771 .15763 .15773 .15763 .15772 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14773 .14777 .14783 Adj. Thermal Con	.13 .36 .26 .08 .06 .0145 .17060609082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation
50072 50073 50074 50075 50076 50077 50080 50081 50082 50084 50086 50088 50088 50089 50090 50091 50092 50093 50094 50095	12.350 12.349 10.330 10.330 10.329 10.329 8.286 8.285 6.213 6.213 6.213 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.877 877 877 877 876	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.928 225.780 226.328 224.510 224.950 225.455 225.555 225.455 225.555	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1704 4.670 4.6670 4.645	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .58250 .32877 .26030 .40508 .48972	.16011 .16071 .157756 .157745 .15785 .15806 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14949 .14956 .14779 .14814 Experimental Thermal Conductivity	.002 .002 .004 .002 .005 .004 .003 .002 .004 .003 .002 .005 .004 .003 .013 .010	.15992 .16026 .15801 .15771 .15763 .15773 .15767 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermai Con Nom. Temperature 275.0 K W/m.K	.13 .36 .26 .08 .06 .0145 .17060609082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic. percent
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50089 50090 50091 50092 50093 50094 50095	12.350 12.349 10.330 10.330 10.329 10.329 8.286 8.285 6.213 6.213 6.213 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.877 877 877 877 876	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.928 224.928 224.928 224.928 224.928 224.928 224.928 224.928 225.780 226.328 224.950 226.328 224.950 225.974 224.608 224.132 225.974 224.608 224.515	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 .4670 .4678 .4657 .4645	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .58250 .32877 .26030 .40508 .48972	.16011 .16071 .157756 .157745 .15785 .15806 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14949 .14956 .14779 .14814 Experimental Thermal Conductivity	.002 .002 .004 .002 .005 .004 .003 .002 .005 .004 .002 .007 .005 .004 .003 .007 .007 .005 .007	.15992 .16026 .15001 .15771 .15763 .15773 .15753 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermmi Con Nom. Temperature 275.0 K	.13 .36 .26 .08 .06 .0145 .170606 .09082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic.
50072 50073 50074 50075 50077 50078 50079 50080 50081 50082 50084 50086 50087 50088 50088 50089 50090 50091 50091 50093 50094 50096	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.213 6.213 6.213 6.213 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.237 877 877 876	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.667 225.569 224.928 225.780 226.328 224.950 224.950 224.950 224.950 224.950 225.974 225.974 224.032 225.975 225.974 224.032 225.975	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1697 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 .4678 .4657 .4645	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .26030 .40508 .40508 .40508	.16011 .16071 .157756 .157745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14885 .14949 .14956 .14885 .14949 .14956 .14885 .14949 .14976 .14885 .14949 .14976 .14885 .14949 .14976 .14885 .14949 .14976 .14885 .14949 .14976 .14885 .14949 .14976 .14885 .14949 .14976 .14885 .14949 .14976 .14885 .14949 .14976 .14885 .14949 .14976 .14885 .14949 .14976 .14885 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14976 .14885 .14886	.002 .002 .004 .002 .005 .004 .003 .002 .005 .004 .003 .002 .007 .004 .003 .017 .013 .010	.15992 .16026 .15001 .15771 .15763 .15773 .15763 .15772 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermal Con Nom. Temperature 275.0 K W/m.K	.13 .36 .26 .08 .06 .0145 .17060609082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic. percent
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50089 50090 50090 50091 50092 50093 50094 50096	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 6.213 4.288 4.288 4.288 2.236 2.235 2.235 2.234 877 877 876	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.667 225.780 226.328 224.510 224.950 225.455	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1704 4.670 4.670 4.6670 4.6675 4.645 Density moi/L	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32792 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40508 .48977 .26030 .40508 .48972	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15580 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14844 .14885 .14949 .14956 .14779 .14814 Experimental Thermal Conductivity W/m.K	.002 .002 .006 .004 .002 .005 .004 .002 .005 .004 .002 .007 .005 .004 .003 .007 .001 .003 .001 .001 .001 .001 .001 .001	.15992 .16026 .15001 .15771 .15763 .15773 .15772 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermmi Con Nom. Temperature 275.0 K W/m.K	.13 .36 .26 .08 .06 .0145 .170606 .09082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic. percent .1915
50072 50073 50074 50075 50076 50077 50080 50081 50082 50084 50086 50087 50089 50090 50090 50090 50090 50090 50090 50090 50090 50096	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 4.288 4.288 2.236 2.235 2.235 2.235 2.234 877 877 877 877 877 7 877 7 877 7 877 7 877 7 877 7 877 7 877 877 877 877 877 877 877	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.667 225.780 224.510 224.510 224.510 224.510 224.510 224.510 224.510 224.510 224.510 224.510 224.510 224.510 224.510 224.510 224.510 224.510 224.700 225.455	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2116 1.1791 1.1764 1.1707 .4670 .4678 .4657 .4645	.2500 .25500 .25500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .405300 .405300 .405300 .405300 .405300 .405300 .405300 .405300	.16011 .16071 .15756 .15745 .15785 .15806 .1546 .15585 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .14977 .14814 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .004 .003 .002 .005 .004 .002 .005 .004 .002 .007 .005 .004 .003 .007 .005 .001 .003 .005 .005 .005 .005 .005 .006 .007 .007 .005 .007 .005 .005 .005 .005	.15992 .16026 .15801 .15771 .15763 .15773 .15773 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15093 .15094 .14912 .14888 .14923 .14901 .14878 .14773 .14783	.13 .36 .26 .08 .06 .0145 .170606 .09082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic. percent .191520
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50089 50090 50090 50091 50092 50093 50094 50096	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 6.213 4.288 4.288 4.288 2.236 2.235 2.235 2.234 877 877 876	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.667 225.780 226.328 224.510 224.950 225.455	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1704 4.670 4.670 4.6670 4.6675 4.645 Density moi/L	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32792 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40508 .48977 .26030 .40508 .48972	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15580 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14844 .14885 .14949 .14956 .14779 .14814 Experimental Thermal Conductivity W/m.K	.002 .002 .006 .004 .002 .005 .004 .002 .005 .004 .002 .007 .005 .004 .003 .007 .001 .003 .001 .001 .001 .001 .001 .001	.15992 .16026 .15001 .15771 .15763 .15773 .15772 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermmi Con Nom. Temperature 275.0 K W/m.K	.13 .36 .26 .08 .06 .0145 .17060609082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic. percent .19152010
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50089 50090 50091 50092 50093 50094 50095 50096	12.350 12.349 10.330 10.330 10.329 10.329 8.286 8.285 6.213 6.213 6.213 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.235 2.236 877 877 877 877 877 7.876	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.667 225.569 224.667 225.569 224.928 224.928 225.780 226.328 224.950 224.950 224.950 224.950 224.950 225.974 224.608 224.510 225.974 224.608 224.732 225.974 224.608 224.732 225.974 224.608	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 .4678 .4657 .4645	.2500 .25500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .26030 .4977 .26030 .4972	.16011 .16071 .157756 .157745 .15785 .15785 .15806 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14885 .14949 .14956 .14956 .14956 .14956 .14779 .14814 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .004 .002 .005 .004 .002 .005 .007 .007 .007 .008 .001 .001 .001 .002 .005 .004 .003 .002 .005 .004 .003 .005 .004 .005 .006 .006 .007 .007 .007 .007 .007 .007	.15992 .16026 .15801 .15771 .15763 .15773 .15767 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermal Con Nom. Temperature 275.0 K W/m.K .23910 .23808 .23779 .23779	.13 .36 .26 .08 .06 .0145 .17060609082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic. percent .19152010
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50088 50090 50091 50092 50093 50094 50095 50095	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.213 6.213 6.213 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.237 877 876 Pressure MP8 67.487 67.482 67.477 67.489 888	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.928 225.780 226.328 224.510 224.950 225.780 226.328 224.510 224.555 225.780 225.780 225.780 225.780 225.780 225.780 225.780 225.780 225.780 225.780 225.780 225.780 225.780 2275.605 275.605 275.605 273.526	6.0460 6.0339 5.1543 5.1568 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 .4670 .4657 .4645 Density moi/L	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .6818 .32879 .40530 .40596 .58239 .68317 .32879 .40530 .48977 .58250 .32877 .26030 .4977 .58250 .32877 .71668 .71668 .77351 .26947 .60252	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14949 .14956 .14770 .14876 .14770 .14876 .14770 .14876 .14779 .14814 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .004 .002 .005 .004 .002 .005 .004 .003 .002 .007 .004 .003 .017 .013 .010	.15992 .16026 .15001 .15771 .15763 .15773 .15763 .15772 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermal Con Nom. Temperature 275.0 K W/m.K .23910 .23808 .23779 .23428	.13 .36 .26 .08 .06 .0145 .17060609082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic. percent .1915201023
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50089 50090 50090 50091 50092 50093 50094 50096 80095 50096	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 4.288 4.288 4.288 2.236 2.235 2.234 .877 .877 .876 Pressure MP8 67.487 67.482 67.477 63.898 63.897	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.667 225.780 226.328 224.510 224.510 224.510 224.510 225.555 225.555 225.555 225.555 225.555 225.5551	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1704 4.670 4.670 4.6670 4.6675 4.645 Density moi/L	.2500 .25500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32792 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40510 .58239 .68317 .32879 .40530 .48977 .26030 .40508 .48977 .71668 .97351 1.26947 .60252 .71602	.16011 .16071 .157756 .157745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .149776 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .149776 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .149776 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .149776 .14976 .14	.002 .002 .002 .004 .002 .005 .004 .002 .005 .004 .002 .007 .005 .004 .003 .007 .001 .003 .017 .018 .010	.15992 .16026 .15026 .15771 .15763 .15773 .15773 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermai Con Nom. Temperature 275.0 K W/m.K .23910 .23808 .23779 .23428 .23478	.13 .36 .26 .08 .06 .0145 .170606 .09082016263119 .00150906 .7213 .04 .08 ductivity deviation expcaic. percent .1910201023 .02
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50089 50090 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 5000 50000 50000 50000 50000 50000 50000 50000 50000 500	12.350 12.349 10.330 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 4.288 4.288 2.236 2.235 2.235 2.235 2.234 877 877 877 877 877 877 67.479 63.899 63.897 63.894	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.667 225.780 224.510 224.510 224.510 224.510 224.510 224.510 224.555 225.780 225.780 225.780 225.780 225.780 224.510 224.510 224.510 224.510 224.510 224.700 225.755 225.774 224.608 224.132 225.034 225.551	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2116 1.1791 1.1764 1.1707 .4670 .4678 .4657 .4645 Density moi/L	.2500 .25500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .26030 .40508 .4	.16011 .16071 .15756 .15745 .15785 .15806 .1546 .15585 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14976 .14	.002 .002 .002 .004 .003 .002 .005 .004 .002 .007 .005 .004 .003 .017 .018 .013 .010	.15992 .16026 .15026 .15771 .15763 .15773 .15773 .15472 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15090 .14912 .14888 .14923 .14901 .14878 .14753 .14777 .14783 AdJ. Thermai Con Nom. Temperature 275.0 K W/m.K	.13 .36 .26 .08 .06 .0145 .17060609082016263119 .0015 .09060109062015201520111900152013 .04 .08 ductivity deviation expcaic. percent .191520102301
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50089 50090 50090 50091 50092 50093 50094 50096 80095 50096	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.214 6.213 6.213 4.288 4.288 4.288 2.236 2.235 2.234 .877 .877 .876 Pressure MP8 67.487 67.482 67.477 63.898 63.897	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.667 225.780 226.328 224.510 224.510 224.510 224.510 225.555 225.555 225.555 225.555 225.555 225.5551	6.0460 6.0339 5.1543 5.1468 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1704 4.670 4.670 4.6670 4.6675 4.645 Density moi/L	.2500 .25500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32792 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40510 .58239 .68317 .32879 .40530 .48977 .26030 .40508 .48977 .71668 .97351 1.26947 .60252 .71602	.16011 .16071 .157756 .157745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .149776 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .149776 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .149776 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .14976 .149776 .14976 .14	.002 .002 .002 .004 .002 .005 .004 .002 .005 .004 .002 .007 .005 .004 .003 .007 .001 .003 .017 .018 .010	.15992 .16026 .15026 .15771 .15763 .15773 .15773 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermai Con Nom. Temperature 275.0 K W/m.K .23910 .23808 .23779 .23428 .23478	.13 .36 .26 .08 .06 .0145 .170606 .09082016263119 .00150906 .7213 .04 .08 ductivity deviation expcaic. percent .1910201023 .02
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50089 50090 50091 50092 50093 50094 50095 50096	12.350 12.349 10.330 10.330 10.329 10.329 8.286 8.285 6.213 6.213 6.213 4.288 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.235 2.236 877 877 876 Pressure MP8 67.487 67.482 67.477 63.898 63.897 63.898	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.667 225.569 224.667 225.780 226.328 224.5196 224.928 225.780 226.328 224.950 224.950 224.950 225.974 224.608 224.5132 225.974 224.075 2275.055 2275.055 2275.005 2273.381 274.076 274.702 275.005 273.526 273.526 273.526 273.526	6.0460 6.0339 5.1543 5.1568 5.1280 5.1160 4.1870 4.1870 4.1610 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 .4678 .4657	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .26030 .4977 .71668 .977351 .26947 .60252 .71602 .97246	.16011 .16071 .157756 .157745 .15785 .15785 .15806 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14885 .14949 .14956 .14956 .14779 .14814 Experimental Thermal Conductivity W/m.K .23821 .23757 .23763 .23812 .23461	.002 .002 .002 .004 .002 .005 .004 .002 .005 .007 .007 .007 .008 .001 .003 .001 .003 .002 .007 .004 .003 .007 .004 .003 .005 .006 .007 .007 .007 .007 .007 .007 .007	.15992 .16026 .15026 .15801 .15771 .15763 .15773 .15767 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14912 .14991 .14878 .14777 .14783 Adj. Thermal Con Nom. Temperature 275.0 K W/m.K .23910 .23808 .23779 .23428 .23478 .23478	.13 .36 .26 .08 .06 .0145 .17060609082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic. percent .191023 .0201 .00
50072 50073 50073 50076 50077 50077 50080 50081 50084 50086 50088 50089 50090 50091 50092 50093 50090 50091 50092 50093 50090 50091 50092 50093 50096	12.350 12.349 10.330 10.329 10.329 8.287 8.286 8.285 6.213 6.213 6.213 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.237 877 876 Pressure MP8 67.487 67.487 67.487 67.489 63.897 63.899 63.897 63.891 60.469	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 226.196 224.928 224.510 224.928 224.510 224.950 225.780 226.328 224.510 224.950 225.780 225.780 225.780 225.780 225.780 225.780 225.780 225.780 225.780 225.780 2275.78	6.0460 6.0339 5.1543 5.1668 5.1280 5.1160 4.1935 4.1870 4.1610 3.1905 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 .4678 .4657 .4645 Density moi/L	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32879 .40580 .68317 .32879 .40530 .4	.16011 .16071 .15756 .15745 .15785 .15806 .15431 .15546 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14884 .14885 .14949 .14956 .14779 .14814 Experimental Thermal Conductivity W/m.K .23821 .23757 .23763 .23812 .23348 .23417 .23432 .23461 .23001	.002 .002 .004 .002 .005 .004 .003 .002 .005 .004 .003 .002 .007 .004 .003 .007 .005 .004 .003 .007 .005 .006 .007 .006 .007 .007 .007 .007 .008 .009 .009 .009 .009 .009 .009 .009	.15992 .16026 .15026 .15801 .15771 .15763 .15773 .15763 .15772 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14923 .14901 .14878 .14777 .14783 Adj. Thermal Con Nom. Temperature 275.0 K W/m.K .23910 .23808 .23779 .23428 .23478 .23449 .23432 .23086	.13 .36 .26 .08 .06 .0145 .17060609082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic. percent .1915201023 .020118
50072 50073 50074 50075 50076 50077 50080 50081 50082 50083 50084 50086 50087 50089 50090 50091 50092 50093 50094 50095 50096	12.350 12.349 10.330 10.330 10.329 10.329 8.286 8.285 6.213 6.213 6.213 4.288 4.288 4.288 4.288 2.235 2.235 2.235 2.235 2.235 2.236 877 877 876 Pressure MP8 67.487 67.482 67.477 63.898 63.897 63.898	225.330 225.790 224.211 224.544 225.389 225.927 224.626 225.577 226.039 224.667 225.569 224.667 225.569 224.667 225.780 226.328 224.5196 224.928 225.780 226.328 224.950 224.950 224.950 225.974 224.608 224.5132 225.974 224.075 2275.055 2275.055 2275.005 2273.381 274.076 274.702 275.005 273.526 273.526 273.526 273.526	6.0460 6.0339 5.1543 5.1568 5.1280 5.1160 4.1870 4.1870 4.1610 3.1850 3.1723 3.1635 2.2254 2.2169 2.2116 1.1791 1.1764 1.1736 1.1707 .4678 .4657	.2500 .2500	.58097 .68139 .32798 .40421 .58080 .68119 .32790 .40411 .58072 .68118 .32782 .40408 .58060 .68090 .40516 .58239 .68317 .32879 .40530 .48977 .26030 .4977 .71668 .977351 .26947 .60252 .71602 .97246	.16011 .16071 .157756 .157745 .15785 .15785 .15806 .15585 .15299 .15291 .15322 .15361 .15079 .15118 .15165 .14885 .14949 .14956 .14956 .14779 .14814 Experimental Thermal Conductivity W/m.K .23821 .23757 .23763 .23812 .23461	.002 .002 .002 .004 .002 .005 .004 .002 .005 .007 .007 .007 .008 .001 .003 .001 .003 .002 .007 .004 .003 .007 .004 .003 .005 .006 .007 .007 .007 .007 .007 .007 .007	.15992 .16026 .15026 .15801 .15771 .15763 .15773 .15767 .15567 .15527 .15526 .15338 .15310 .15290 .15293 .15083 .15074 .15090 .14912 .14888 .14912 .14991 .14878 .14777 .14783 Adj. Thermal Con Nom. Temperature 275.0 K W/m.K .23910 .23808 .23779 .23428 .23478 .23478	.13 .36 .26 .08 .06 .0145 .17060609082016263119 .0015 .0906 .7213 .04 .08 ductivity deviation expcaic. percent .191023 .0201 .00

51011	60.466	274.661	18.6780	.2500	.97442	.23'088	.002	.23106	.04
						.23084		.23053	09
51012	60.466	275.568	18.6333	.2500	1.27095		.001		
51013	57.015	273.472	17.9834	.2500	•60337	.22699	•003	•22781	.07
51014	57.012	273.823	17.9656	.2500	•71711	.22661	•002	.22724	15
51015	57.011	274.654	17.9251	.2500	.97384	.22670	.002	.22689	22
51016	57.010	275.599	17.8795	.2500	1.27030	.22715	.001	.22683	16
								.22393	01
51017	53.442	273.516	17.1721	.2500	.60329	.22314	•003		
51018	53.439	273.866	17.1550	.2500	.71707	.22317	•002	.22378	05
51019	53.438	274.684	17.1161	.2500	.97371	• 22330	•002	.22347	11
51020	53.437	275.568	17.0743	.2500	1.27020	.22384	.001	.22354	.00
				.2500	.60374	.21961	.003	.22039	02
51021	49.994	273.540	16.3605						
51022	49.994	273.923	16.3429	.2500	.71774	.22023	•002	.22080	•20
51023	49.994	274.772	16.3041	• 2500	•97494	.21982	•002	.21994	11
51024	49.994	275.203	16.2845	.2500	1.11830	.22018	.001	.22007	01
51025	46.509	273.619	15.5063	.2500	.60374	.21559	.003	.21632	25
						.21625		.21681	•00
51026	46.508	273.947	15.4915	.2500	.71749		•002		
51027	46.507	274.836	15.4521	.2500	• 97 466	•21625	•002	.21634	14
51028	46.506	275.259	15.4332	. 2500	1.11823	• 21650	.001	.21636	09
51029	43.000	273.638	14.6150	.2500	.60362	.21289	.003	.21360	.13
							.002	.21324	01
51030	42.999	274.015	14.5986	• 2500	•71745	.21272			
51031	42.999	274.850	14.5631	• 2500	•97452	.21285	•002	.21293	09
51032	42.998	275.310	14.5435	.2500	1.11802	.21327	•002	.21311	.03
51033	39.533	273.652	13.6988	.2500	.60368	.20900	•002	.20970	08
51034	39.533	274.086	13.6811	.2500	.71734	.20893	.002	.20941	19
51035	39.532	274.950	13.6458	.2500	.97444	•20970	.001	.20973	.03
51036	39.532	275.386	13.6281	.2500	1.11797	.20995	.001	.20975	.07
51037	36.061	273.285	12.7587	.2500	.49957	.20438	•003	.20527	59
51038	36.061	273.676	12.7433	.2500	.60346	.20512	.002	.20581	30
			12.7100			.20538	.002	.20563	33
51039	36.058	274.517		.2500	.84068				
51040	36.054	275.016	12.6896	• 2500	.97415	.20611	.001	•20610	07
51041	32.664	273.339	11.7829	•2500	•49959	.20155	•003	.20241	37
51042	32.662	273.748	11.7676	.2500	.60345	.20228	.003	.20293	08
51043	32.661	274.568	11.7374	.2500	.84072	.20243	.002	.20265	17
								.20299	
51044	32.660	275.061	11.7190	. 2500	.97434	.20302	.001	. –	.03
51045	29.043	273.390	10.6985	.2500	•49947	.19855	•003	.19938	13
51046	29.041	273.767	10.6853	.2500	.60348	.19888	•002	.19951	04
51047	29.040	274.620	10.6562	.2500	.84102	.19895	•002	.19914	18
51048	29.040	275.151	10.6382	.2500	.97449	.19926	•002	.19918	13
51053	22.852	272.990	8.7441	.2500	.40505	.19278	•004	.19380	•00
51054	22.851	273.239	8.7365	.2500	.49928	.19322	•003	.19411	•17
51055	22.851	273.638	8.7251	.2500	.60316	.19340	.002	.19409	.18
51056	22.850	274.023	8.7138	.2500	.71690	.19390	.002	.19440	.35
			7.8814	.2500		.19041	.004		
51057	20.257	272.675			.40469			.19159	.10
51058	20.257	273.103	7.8701	. 2500	.49842	•19062	•004	.19158	.11
51059	20 • 257	273.545	7.8583	.2500	.60204	.19112	•003	.19186	.27
51060	20.256	273.918	7.8484	.2500	.71572	.19146	.002	.19201	•36
51061	17.954	272.671	7.0835	.2500	.40448	.18772	.005	.18890	20
51062	17.954	273.029	7.0747	• 2500	•49836	.18882	.003	.18982	•30
51063	17.953	273.462	7.0642	•2500	.60194	.18852	.003	.18930	.04
51064	17.953	273.978	7.0518	.2500	.71543	.18879	.002	.18931	.06
51065	15.886	272.708	6.3460	.2500	.40580	.18633	.005	.18749	.05
51066	15.886								
		273.136	6.3366	• 2500	.50012	•18649	•003	•18743	.04
51067	15.885	273.559	6.3274	• 2500	.60417	.18670	•003	.18743	.05
51068	15.885	274.484	6.3075	.2500	.84191	.18735	•002	.18761	.17
51069	13.633	273.164	5.5129	. 2500	.50016	.18439	.003	.18531	01
51070	13.632	273.541	5.5054	.2500	.60423	.18455	•003	.18528	01
51071	13.631	274.605	5.4850	.2500	.84187	.18486	.002		
								.18506	11
51072	13.631	275.178	5.4740	• 2500	.97542	.18550	.002	.18541	.10
51073	11.534	273.181	4.7242	.2500	•50013	.18226	.003	.18317	15
51074	11.533	273.659	4.7162	.2500	.60400	.18262	•003	.18329	08
51075	11.533	274.157	4.7080	.2500	.71792	.18306	.002	.18348	.04
51076	11.533	274.718	4.6987						
				.2500	.84157	.18321	•002	.18335	02
51077	9.560	273.189	3.9637	. 2500	.50009	.18057	•004	.18148	13
51078	9.560	273.701	3.9564	.2500	.60401	.18142	.003	.18207	.21
51079	9.559	274.220	3.9490	.2500	.71792	.18150	.003	.18189	.12
51080	9.558	274.766	3.9411	. 2500	.84156	.18158	.002	.18170	.02
51081	7.163	273.344	3.0125	.2500	.49994	.17824	•003	.17907	30
51082	7.162	273.759	3.0078	.2500	•60391	•17934	.003	.17996	.20
51083	7.162	274.338	3.0015	.2500	.71776	.17869	.002	.17902	32
51084	7.161	274.888	2.9955	.2500	.84148	.17966	.002	.17972	.08
51085	5.095	273.390	2.1703	.2500	.49994				
						.17699	.004	.17779	02
51086	5.095	273.887	2.1663	.2500	.60380	.17710	•003	•17766	09
51087	5 • 0 9 4	274.491	2.1615	.2500	•71760	•17706	.003	.17731	28
51088	5.094	275.018	2.1572	.2500	.84142	.17773	.002	.17772	04
51089	3.102	273.518	1.3375	.2500	.49982	.17516	.006	.17590	12
51090	3.102	274.081	1.3347	.2500	•60370	.17571	•005	.17617	.03
51091	3.101	274.653	1.3316	•2500	•71755	.17564	.004	.17581	16
51092	3.101	275.261	1.3286	.2500	.84127	.17617	.004	.17604	03
51093	1.010	273.647	.4410	.2500	.49967	.17390	.021	.17457	.15
51094	1.009	273.179	.4414						
				•2500	•40550	•17407	.023	.17498	.30
51095	1.009	274.771	•4387	•2500	.71745	.17398	.018	.17409	13
51096	1.008	274.180	.4394	.2500	.60360	.17338	.020	.17379	30

						Experimental Thermal		Adj. Thermal Co Nom. Temperature	
Run Pt.	Pressure MPa	Temperature K	Density mol/L	para fraction	Power W/m	Conductivity W/m.K	STAT	294.0 K W/m.K	expcaic. percen
48001	68.201	294.472	19.3040	.2500	.54185	. 24464	.004	•24439	•02
48002	68.201	295.298	19.2656	· 2500	•77786	. 24519	•003	.24451	.15
4 8003 4 8004	68.203 68.202	296.045 296.886	19.2316	.2500 .2500	1.05639	• 24 54 4 • 24 60 2	.002	•24436 •24450	•16 •30
48005	68.206	297.548	19.1629	.2500	1.55348	. 24605	.002	.24418	•23
48006	64.894	294.603	18.6473	.2500	.54186	.24138	•004	.24106	.01
48007	64.891	295.289	18.6156	•2500	•77779	.24242	.002	•24175	•36
48008 48009	64.897 64.897	296.064 297.042	18.5814	•2500 •2500	1.05619	•24191 •24242	.002	•24083 •24083	•05 •14
48010	61.437	294.345	17.9572	.2500	.43984	.23741	.005	•23723	20
48011	61.437	294.964	17.9296	.2500	.65470	.23856	.003	.23806	.20
48012	61.438	295.714	17.8962	.2500	.91194	.23936	.003	•23847	•44
48013 48014	61.437 61.437	296.639 297.079	17.8552 17.8357	• 2500 • 2500	1.21172	.23933	.002	.23796 .23772	•31 •25
48015	57.806	294.696	17.1793	• 2500	.54215	.23509	.004	• 23473	•27
48016	57.806	295.456	17.1463	.2500	.77801	.23532	.002	.23457	.27
48017	57.805	296.254	17.1115	.2500	1.05667	.23551	.002	.23435	.24
48018	57.805	297.254	17.0684	• 2500	1.37767	.23595	.001	•23427	•29
48019 48020	54.207 54.208	294.796 295.491	16.3926 16.3634	•2500 •2500	•54221 •77840	.23138 .23193	.004	•23097 •23117	•17 •30
48021	54.207	296.244	16.3316	.2500	1.05731	.23217	.002	.23102	•30
48022	54.207	297.325	16.2862	.2500	1.37817	.23243	•002	•23073	•26
48023	50.785	294.727	15.6250	.2500	.54239	.22807	.004	•22770	•17
48024 48025	50.783 50.783	295.429 296.339	15.5958 15.5586	.2500 .2500	.77851 1.05724	.22850 .22891	.002	•22777 •22772	.25 .30
48026	50.782	297.419	15.5144	.2500	1.37822	.22912	.001	•22738	•23
48027	47.398	294.786	14.8331	.2500	.54230	.22505	.004	.22465	.25
48028	47.398	295.528	14.8038	.2500	•77833	.22504	.002	•22427	•13
48029	47.399	296.356	14.7712	• 2500	1.05718	.22594	.002	• 22475	• 40
48030 48031	47.399 43.906	297.501 294.812	14.7264	.2500 .2500	1.37803 .54226	.22618 .22119	.001	.22441 .22078	00
48032	43.906	295.571	13.9597	.2500	.77824	.22212	.002	.22133	.29
48033	43.906	296.489	13.9249	.2500	1.05668	.22251	.002	•22126	•32
48034	43.906	297.023	13.9047	• 2500 2500	1.21206	.22285	•002	.22133	•39
48035 48036	40.302 40.302	295.186 295.664	13.0710 13.0537	.2500 .2500	.65502 .77827	•21855 •21925	.003	•21796 •218 4 2	•26 •50
48037	40.302	296.556	13.0215		1.05696	.21925	.002	.21797	.35
48038	40.301	297.094	13.0018	. 2500	1.21222	.21957	.001	.21802	.41
48039	36.857	295.251	12.1718	.2500	.65485	.21533	.003	.21471	•24
48040 48041	36.857 36.856	295.708 296.647	12.1561	.2500 .2500	.77812 1.05668	.21552 .21591	.002	•21467 •21459	• 24 • 26
48042	36.856	297.177	12.1055	.2500	1.21200	.21629	.001	.21471	.34
48043	33.618	295.296	11.2955	.2500	.65495	.21217	.002	.21153	•13
48044	33.618	295.772	11.2801	.2500	.77827	.21270	.002	.21182	•30
48045 48046	33.618 33.617	296.714 297.218	11.2496 11.2332	.2500 .2500	1.05682	.21308 .21329	.002	•21174 •21170	.30 .31
48047	30.276	295.373	10.3567	.2500	.65484	.20953	.002	.20885	•30
48048	30.275	295.691	10.3470	.2500	.77854	.20980	.002	.20897	.37
48049	30.275	296.806	10.3133	.2500	1.05682	.21025	.001	•20887	•37
48050 48051	30.275 27.386	297.397 295.390	10.2956	.2500 .2500	1.21168	.21026 .20694	.001	• 20858 • 20626	•26 •29
48052	27.385	295.831	9.5050	.2500	.77880	.20689	.002	.20599	.18
48053	27.384	296.913	9.4743		1.05746	.20758	.001	.20615	•30
48054	27.384	297.388	9.4610	.2500	1.21311	•20795	.001	•20629	• 39
48055 48056	24.579 24.579	295.492 295.922	8.6737 8.6625	.2500 .2500	.65542 .77882	.20435 .20451	.002	•20362 •20357	•21 •20
48057	24.579	296.403	8.6499	.2500	.91298	.20485	.001	•20367	.27
48058	24.578	297.003	8.6341	.2500	1.05756	.20508	.001	.20361	•26
48060	21.923	296.493	7.8285	.2500	.78002	.20257	.002	.20135	•27
48061 48062	21.924 21.924	296.958 297.486	7.8175	.2500 .2500	.91447	.20276 .20316	.002	•20132 •20146	•26 •35
48063	19.551	296.028	7.8051 7.0853	.2500	1.05954 .65611	.20003	.003	•19904	.11
48064	19.550	296.457	7.0759	.2500	.78020	.20024	.002	.19904	.13
48065	19.550	297.042	7.0631	.2500	.91434	.20066	.002	.19918	.21
48066 48067	19.550 16.900	297.526 296.036	7.0523 6.2174	•2500	1.05906	.20131 .19809	•002	•19959 •19710	.43 .27
48068	16.900	296.551	6.2074	.2500 .2500	.65637 .77997	.19788	.002	.19664	•05
48069	16.899	297.049	6.1975	.2500	.91427	.19845	.002	.19697	•23
48070	16.899	297.646	6.1860	.2500	1.05916	.19877	.002	.19700	•26
48071	14.783	295.725	5.5104	•2500	.54335	.19622	.003	•19538	•29 •23
48072 48073	14.783 14.782	296.067 296.652	5.5043	•2500 •2500	.65632 .77997	•19625 •19622	•002	•19525 •19494	.08
48074	14.781	297.186	5.4844	.2500	.91412	.19667	.002	.19513	.19
48075	14.781	297.763	5.4744	.2500	1.05912	.19695	.001	.19513	.21
48076	12.314	296.233	4.6482	•2500	•65636	.19424	•002	•19316 19307	•21 •18
48077 48078	12.313 12.313	296.732 297.236	4.6405	.2500 .2500	.77986 .91416	•19439 •19462	•002	•19307 •19306	.18
48079	12.313	297.846	4.6238	.2500	1.05935	.19493	.002	.19307	•20
48080	10.243	295.834	3.9183	.2500	.54333	.19186	.003	•19097	05

4.0003	10 040	204 204	2 03 22	2500	45420	10244	.003	.19134	.15
48081	10.243	296.286	3.9123	.2500	.65638	.19244			
48082	10.242	296.815	3.9055	.2500	.78000	.19270	.002	.19134	.16
48083	10.241	297.373	3.8983	.2500	.91431	.19302	.002	.19139	.20
48084	7.839	295.895	3.0405	• 2500	• 54336	.18964	.004	.18873	20
48085	7.839	296.374	3.0356	.2500	.65630	.19088	.003	.18974	.34
48086	7.838	296.940	3.0298	.2500	.77986	.19075	.002	.18933	•13
48087	7.837	297.456	3.0244	.2500	.91419	.19083	.002	.18916	.05
48088	5.600	296.029	2.2000	.2500	•54360	•18816	.003	.18718	07
48089	5.599	296.538	2.1961	.2500	.65674	.18843	.004	.18721	05
48090	5.599	297.086	2.1918	.2500	.78061	.18913	.002	•18765	.19
48091	5.598	297.689	2.1872	.2500	.91502	.18939	.002	.18762	.18
48092	3.196	296.114	1.2734	• 2500	•54390	.18656	.005	.18554	•08
48093	3.195	296.679	1.2707	.2500	.65685	.18670	.007	.18541	.01
		297.240	1.2680	.2500	.78037	.18724	.006	.18568	.16
48094	3.195								
48095	3.194	297.804	1.2655	.2500	.91507	.18754	•005	.18571	.18
	.667	296.172	.2696	.2500	.54309	.18590	.020	.18486	.80
48096									
48097	•665	296.673	.2684	.2500	.65637	.18588	.013	.18460	•66
48098	.664	297.340	.2675	.2500	.78000	.18544	.011	.18384	•26
48099	•664	297.999	.2668	.2500	.91433	.18668	.023	•18476	.75
						Funcalasabal		Add Thomas Can	4
						Experimental		Adj. Thermal Con	
						Thermal		Nom. Temperature	deviation
0 04			Dens I A.				CTAT		
Run Pt.	Pressure	Temperature	Density	Para	Power	Conductivity	STAT		expcalc.
	MPa	K	mol/L	fraction	W/m	¥/m⋅K		W/m.K	percent
		.,			47 • 100				P 0 1 0 0 0
49001	67.264	312.846	18.3086	.2500	.80815	.24954	.002	.24987	.15
		313.710	18.2730	.2500		.25007	.002	.24996	.26
49002	67.268				1.09711				
49003	67.273	314.672	18.2334	.2500	1.43058	.25041	.002	.24982	.28
49004	67.275	315.182	18.2124	.2500	1.61350	.25092	.001	.25007	. 42
49005	63.904	312.582	17.6685	• 2500	.67987	.24606	.003	•24652	.05
49006	63.905	312.950	17.6534	.2500	.80768	. 24654	.002	.24681	.20
49007	63.906	313.693	17.6228	.2500	1.09693	.24711	.002	.24701	• 3 4
49008	63.905	314.733	17.5798	.2500	1.42974	.24772	.001	.24710	.46
49009	60.370	312.567	16.9627	.2500	•67977	•24351	.003	.24397	• 36
49010	60.370	312.840	16.9516	.2500	.80781	.24353	.002	.24386	•33
49011	60.371	313.729	16.9157	.2500	1.09691	.24387	.002	.24376	• 36
49012	60.366	314.741	16.8741	•2500	1.42986	.24408	.001	.24346	• 32
49013	56.886	312.614	16.2416	.2500	.67957	.23944	.002	.23988	.01
49014	56.886	312.944	16.2286	.2500	.80757	.23987	.002	.24014	.14
49015	56.885	313.819	16.1939	.2500	1.09656	.24018	.001	.24002	.15
49016	56.885	314.877	16.1525	.2500	1.42961	.24124	.001	•24056	• 45
49017	53.323	312.635	15.4805	.2500	.67951	.23720	.003	.23762	.44
49018	53.322	313.028	15.4654	.2500	.80744	.23692	.002	•23715	.27
49019	53.322	313.831	15.4347	.2500	1.09664	.23739	.001	.23723	• 35
49020	53.322	314.898	15.3942	.2500	1.42949	•23795	.002	.23726	.44
49021	49.701	312.650	14.6803	.2500	.67939	.23374	.003	.23415	• 37
49022	49.702	313.047	14.6659	• 2500	.80745	.23348	.002	.23370	.20
49023	49.702	313.961	14.6324	.2500	1.09626	.23410	.002	.23388	• 3 3
	49.702								
49024		314.899	14.5981	.2500	1.42954	.23468	.001	.23400	.45
49025	46.273	312.599	13.8989	.2500	.67962	.23086	.002	.23130	. 47
49026	46.272	313.024	13.8837	.2500	.80751	.23059	.002	.23082	
									.29
49027	46.271	313.982	13.8496	• 2500	1.09628	.23103	.002	.23080	.34
49028	46.274	315.056	13.8122	.2500	1.42899	.23130	.001	.23055	.29
49029	42.748	312.756	13.0599	.2500	.67938	. 22 734	.003	•22770	.29
49030	42.751	313.118	13.0482	.2500	.80734	.22781	.002	.22799	. 4 4
49031	42.751	314.066	13.0161	. 2500	1.09622	.22813	.002	.22786	•43
49032	42.751	315.103	12.9811	.2500	1.42940	.22826	.001	.22749	• 3 2
49033	39.293	312.771	12.2128	.2500	.67915	.22379			
							.002	.22414	.06
49034	39.293	313.167	12.1999	.2500	.80723	.22464	.002	.22480	.38
49035	39.293	314.112	12.1695	.2500	1.09602	.22512	.002	.22483	.44
49036	39.291	315.169	12.1353	• 2500	1.42912	• 22576	.001	.22496	.55
49037	35.795	312.833	11.3229	.2500	.67920	.22136	.003	.22168	.33
49038	35.795								
		313.124	11.3140	.2500	.80756	.22181	.002	.22199	.49
49039	35.795	314.184	11.2817	.2500	1.09607	.22203	.001	.22170	.41
49040	35.795	315.255	11.2492	.2500	1.42917	.22276			
							.001	.22192	.55
49041	32.292	312.871	10.3991	.2500	.67927	.21779	.002	.21809	.08
49042	32.292	313.162	10.3907	.2500	.80757	.21891	.002	.21907	.54
49043	32.291	314.234	10.3600	. 2500	1.09619	.21913	.002	.21878	.45
49044	32.290	315.340	10.3286	.2500	1.42931	.22001	.001	.21914	.66
49045	28.803	312.895	9.4448	.2500	.67916	.21557	.003	.21586	.41
49046	28.803	313.365	9.4324	.2500	.80706	.21588	.002	.21594	.47
49047	28.803								
		314.251	9.4091	• 2500	1.09616	.21623	.001	.21588	.47
49048	28.802	314.879	9.3925	.2500	1.25667	.21616	.001	.21551	.33
49049	25.907	312.896	8.6258	.2500					
					.67920	.21318	.003	.21346	• 4 3
49050	25.907	313.349	8.6146	.2500	.80713	. 21 366	.002	.21373	.57
49051	25.906	314.389	8.5891	.2500	1.09591	.21380	.002		
								.21338	.45
49052	25.906	314.970	8.5749	.2500	1.25669	.21398	.002	.21329	.42
49053	23.415	312.991	7.8979	.2500	.67921	.21085	.002	.21110	. 30
49054	23.415	313.453	7.8872	.2500	.80703	.21144	.002	.21146	. 48
49055	23.414	314.492	7.8635	.2500	1.09600	.21202	.002	.21155	.56
49056	23.414	315.090	7.8500	.2500	1.25670	.21214	.001	.21139	.50
49057	21.000	312.627	7.1829	.2500	.56712	.20979	.003	.21020	.80
49058	21.000								
		312.300	7.1897	. 2500	.46004	.20859	.004	.20945	. 4 4
49059	21.000	313.635	7.1619	.2500	.81323	.21011	.002	.21005	.76
49060	21.000	314.139							
47000	21.000	2149134	7.1514	.2500	.95308	.21001	.002	.20971	.61

49061	18.660	212 272	6.4706	. 25 00	45071	.20771	004	20020	7.0
		312.273			.45971		.004	.20828	•79
49062	18.660	312.630	6.4636	• 2500	•56633	.20802	•004	•20843	•87
49063	18.659	313.514	6.4467	• 25 00	.81284	•20763	•002	•20762	•51
49064	18.659	314.078	6.4361	• 2500	. 95248	.20815	•002	•20788	•64
49065	16.279	312.289	5.7184	.2500	.45947	.20507	.004	• 20563	•45
49066	16.278	312.675	5.7116	• 2500	.56605	.20485	.003	.20523	•26
49067	16.278	313.580	5.6961	. 2500	.81235	.20532	.002	.20528	.30
49068	16.277	314.156	5.6863	2500	.95211	.20621	.003	•20590	.62
49069	13.970	312.242	4.9708	• 2500	•45 945	.20329	•004	.20388	•49
49070	13.969	312.668	4.9642	.2500	•56602	•20394	•003	.20433	.71
49071	13.969	313.599	4.9502	.2500	.81222	.20386	.002	.20381	•48
49072	13.969	314.200	4.9413	•2500	•95176	.20411	.002	.20378	•48
49073	11.634	312.280	4.1928	• 2500	.45921	.20103	.003	.20160	.27
49074	11.633	312.672	4.1876	. 2500	.56582	.20143	.003	.20181	.39
49075	11.632	313.669	4.1747	.2500	.81205	.20201	.003	.20193	•46
49076	11.632	314.287	4.1668	.2500	.95156	.20229	.003	20192	
									• 46
49077	9.309	312.364	3.3981	• 2500	•45920	•19957	•004	•20010	•43
49078	9.309	312.806	3.3933	.2500	.56559	•19910	.003	•19942	•10
49079	9.308	313.822	3.3825	•2500	.81183	.19999	.003	.19984	•32
49080	9.307	314.349	3.3768	• 2500	.95144	.20019	.003	•19980	•30
49081	6.793	312.399	2.5147	.2500	.45926	.19738	.006	.19789	.30
49082	6.792	312.860	2.5110	. 25 00	.56579	.19819	.004	•19849	•60
49083	6.791	313.854	2.5028	. 2500	.81169	.19832	.002	.19816	.44
49084	6.790	314.559	2.4970	.2500	.95134	.19810	.001	•19761	•17
49085	4.499	312.492	1.6869	• 2500	.45921	.19574	.008	•19621	•33
49086	4.498	312.889	1.6847	•2500	•56578	•19585	.004	.19613	.30
49087	4.498	314.037	1.6786	.2500	.81178	•19644	•006	•19619	•33
49088	4.498	314.687	1.6751	• 2500	.95133	.19636	•005	•19581	•14
49089	2.427	312.141	.9221	.2500	.36368	.19312	.009	•19375	13
49090	2.426	312.413	.9209	.2500	.45915	•19336	.007	•19386	06
49091	2.426	313.364	.9180	.2500	.68332	.19418	.006	.19424	•13
49092	2.425	313.922	.9162	•2500	.81199	.19443	.002	.19424	.13
49093	1.009			.2500				•19235	
		311.734	.3870		.27946	.19154	•012		29
49094	1.009	312.130	.3866	. 2500	.36367	.19307	.010	.19370	•41
49095	1.009	312.545	.3860	•2500	.45901	•19236	.010	•19280	05
49096	1.009	313.068	.3853	.2500	•56547	.19313	•009	•19333	•22
49097	1.007	313.560	.3841	· 2500	.68309	•19426	.009	•19423	•68
						Experimental		Adj. Thermal Co	nductivity
						Thermal		Nom. Temperature	
Run Pt.	Pressure	Temperature	Density	para	Power	Conductivity	STAT	125.0 K	expcalc.
							•		
	MPa	K	E01/1	fraction	W/m	W/m.K		W/m.K	Dercent
	MPa	К	mol/L	fraction	W/m	W/m.K		W/m.K	percent
74001							0.01		
76001	63.517	126.038	31.5280	•2500	.81039	.20899	.001	.20814	57
76002	63.517 63.517	126.038 126.258	31.5280 31.4992	.2500 .2501	.81039 .89444	.20899 .20873	.001	.20814 .20770	57 68
76002 76003	63.517 63.517 63.515	126.038 126.258 126.425	31.5280 31.4992 31.4770	.2500 .2501 .2502	.81039 .89444 .98283	.20899 .20873 .20903	.001	.20814 .20770 .20787	57 68 52
76002	63.517 63.517	126.038 126.258	31.5280 31.4992	.2500 .2501	.81039 .89444	.20899 .20873	.001	.20814 .20770	57 68
76002 76003	63.517 63.517 63.515	126.038 126.258 126.425	31.5280 31.4992 31.4770	.2500 .2501 .2502	.81039 .89444 .98283	.20899 .20873 .20903	.001	.20814 .20770 .20787	57 68 52
76002 76003 76004	63.517 63.517 63.515 63.515 56.672	126.038 126.258 126.425 126.844 126.183	31.5280 31.4992 31.4770 31.4225 29.8632	.2500 .2501 .2502 .2503 .2516	.81039 .89444 .98283 1.07654 .81186	.20899 .20873 .20903 .20914	.001 .001 .001	.20814 .20770 .20787 .20764 .19622	57 68 52 43
76002 76003 76004 76005 76006	63.517 63.517 63.515 63.515 56.672 56.676	126.038 126.258 126.425 126.844 126.183 126.386	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374	.2500 .2501 .2502 .2503 .2516	.81039 .89444 .98283 1.07654 .81186 .89597	.20899 .20873 .20903 .20914 .19716	.001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571	57 68 52 43 36 53
76002 76003 76004 76005 76006 76007	63.517 63.517 63.515 63.515 56.672 56.676	126.038 126.258 126.425 126.844 126.183 126.386 126.745	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900	.2500 .2501 .2502 .2503 .2516 .2517	.81039 .89444 .98283 1.07654 .81186 .89597 .98461	.20899 .20873 .20903 .20914 .19716 .19681	.001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519	57 68 52 43 36 53
76002 76003 76004 76005 76006 76007 76008	63.517 63.517 63.515 63.515 56.672 56.676 56.676 56.683	126.038 126.258 126.425 126.844 126.183 126.386 126.745	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129	.20899 .20873 .20903 .20914 .19716 .19681 .19658	.001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519	57 68 52 43 36 53 62
76002 76003 76004 76005 76006 76007 76008 76009	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036	126.038 126.258 126.425 126.844 126.386 126.745 125.872	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .73223	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756	.001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604	57 68 52 43 36 53 62 19
76002 76003 76004 76005 76006 76007 76008 76009 76010	63.517 63.517 63.515 56.672 56.676 56.676 56.683 51.036	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.875 125.875	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .73223 .81169	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18666	.001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571	57 68 52 43 36 53 62 19 36
76002 76003 76004 76005 76006 76007 76008 76009 76010 76011	63.517 63.517 63.515 63.515 56.672 56.676 56.683 51.036 51.039 51.041	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .73223 .81169	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18665	.001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571	57 68 52 43 36 53 62 19 36 47
76002 76003 76004 76005 76006 76007 75008 76009 76010 76011 76012	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.041	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .73223 .81169 .89648	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .1865 .18655	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490	57 68 52 43 36 53 62 19 36 47 40
76002 76003 76004 76005 76006 76007 76008 76009 76010 76011	63.517 63.517 63.515 63.515 56.672 56.676 56.683 51.036 51.039 51.041	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .73223 .81169	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18665	.001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571	57 68 52 43 36 53 62 19 36 47
76002 76003 76004 76005 76006 76007 75008 76009 76010 76011 76012	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.041	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .73223 .81169 .89648	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .1865 .18655	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490	57 68 52 43 36 53 62 19 36 47 40
76002 76003 76004 76005 76006 76007 76008 76009 76010 76011 76012 76013 76014	63.517 63.517 63.515 56.672 56.676 56.676 56.676 51.036 51.039 51.041 51.044 46.372	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.826	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532 .2532 .2533 .2544	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .73223 .81169 .89648 .98492 .73237 .65637	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18666 .18665 .18675 .18632 .17828	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731	57 68 52 43 36 53 62 19 36 47 40 62
76002 76003 76004 76005 76006 76007 76009 76010 76011 76012 76013 76014 76015	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.375	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.875 125.875 126.199 126.585 125.826 126.472	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532 .2532 .2533 .2544 .2545	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .73223 .81169 .89648 .98492 .73237 .65637 .81318	.20899 .20873 .20903 .20914 .19716 .19681 .19756 .18686 .18675 .18632 .17816 .17828	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765	57 68 52 43 36 53 62 19 36 47 40 62 36
76002 76003 76004 76005 76006 76007 76008 76010 76011 76012 76013 76014 76015 76016	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.378	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532 .2533 .2544 .2545 .2546	.81039 .89444 .98283 1.07654 .81186 .89597 .73129 .73223 .81169 .89648 .98492 .73237 .65637 .81318 .89770	.20899 .20873 .20903 .20914 .19716 .19681 .19756 .18686 .18675 .18632 .17816 .17828 .17780	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .17765 .17667	57 68 52 43 36 53 62 19 36 47 40 62 31 56
76002 76003 76004 76005 76006 76007 76008 76009 76010 76011 76012 76013 76014 76015 76016	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.378 46.380 42.211	126.038 126.258 126.425 126.484 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.826 126.472	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2533 .2544 .2545 .2546 .2546	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .73223 .81169 .89648 .98492 .73237 .65637 .81318 .89770	.20899 .20873 .20903 .20914 .19716 .19658 .19756 .18686 .18665 .18675 .18632 .17816 .17828 .17780 .17789	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667	57 68 52 43 36 53 62 19 36 47 40 62 31 56 50
76002 76003 76004 76005 76006 76007 76008 76010 76011 76012 76013 76014 76015 76016 76017	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.041 51.044 46.372 46.375 46.380 42.211	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.826 126.472 126.472 126.472	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3026 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2532 .2544 .2545 .2546 .2546 .2560	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .73223 .81169 .89648 .98492 .73237 .65637 .81318 .89770 .873298	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18665 .18675 .18632 .17816 .17828 .17780 .17789	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17662 .16995	57 68 52 43 36 53 62 19 36 47 40 62 36 31 56 53
76002 76003 76004 76005 76006 76007 76009 76010 76011 76012 76013 76014 76015 76016 76017 76018	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.041 51.044 46.372 46.375 46.380 42.211 42.212	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.826 126.472 126.649 125.932 126.210 126.406	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.65501	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2533 .2544 .2546 .2546 .2560	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .81648 .98492 .73237 .65637 .81318 .89770 .65731 .73298 .81347	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18665 .18675 .18632 .17816 .17780 .17789 .17789	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17662 .16995	57 68 52 43 36 53 62 19 36 40 62 31 56 50 50
76002 76003 76004 76005 76006 76007 76008 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020	63.517 63.515 63.515 56.672 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.378 46.380 42.211 42.212 42.214	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.193 126.585 126.585 126.403 125.824 126.409 126.406 126.406	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.65501 25.5836	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532 .2533 .2544 .2545 .2546 .2546 .2546 .2560	.81039 .89444 .98283 1.07654 .81186 .89597 .73129 .73223 .81169 .89648 .98492 .73237 .65637 .81318 .89770 .65731 .73298 .81347	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18675 .18632 .17816 .17828 .17780 .17789 .17760 .17066 .17028	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936	57 68 52 43 36 53 62 19 36 47 40 62 31 56 50 513 55
76002 76003 76004 76005 76006 76007 76009 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76021	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.378 46.378 46.380 42.211 42.212 42.214 43.249	126.038 126.425 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.826 126.472 126.649 125.932 126.210 126.906 126.906	31.5280 31.4992 31.4770 31.4225 29.8632 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.6557 27.55836 24.3141	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532 .2533 .2544 .2545 .2546 .2546 .2560 .2561	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .83169 .89648 .98492 .73237 .65637 .81318 .98770 .65731 .73298 .81347 .81347	.20899 .20873 .20903 .20914 .19716 .19681 .19756 .18686 .18675 .18632 .17816 .17828 .17780 .17789 .17066 .17028 .17053 .17053	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17667 .17662 .16995 .16936 .16956	57 68 52 43 36 53 62 19 36 47 40 62 31 56 31 50 13 50
76002 76003 76004 76005 76006 76007 76008 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76021	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.041 51.044 46.372 46.375 46.378 46.380 42.211 42.212 42.214 42.216 38.251	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.826 126.472 126.406 126.406 126.406 126.406 126.408	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.5836 4.3141 24.2712	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2533 .2544 .2545 .2546 .2546 .2560 .2561	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .89648 .98492 .73237 .65637 .61318 .89770 .65731 .73298 .81347 .89882 .73394	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18665 .18675 .18632 .17816 .17828 .17780 .17789 .17789 .17066 .17028 .17062 .17053 .16280	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936 .16956 .16909 .16173	57 68 52 43 36 53 62 19 36 47 40 62 36 56 51 50 13 55 50 13 20 23
76002 76003 76004 76005 76006 76008 76009 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76020 76021 76023	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.041 51.044 46.372 46.375 46.380 42.211 42.212 42.214 42.214 38.249 38.251 38.254	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.826 126.472 126.472 126.472 126.472 126.472 126.473 125.932	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3811 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.6501 25.5836 24.3141 24.2712 24.2311	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2532 .2544 .2546 .2546 .2546 .2561 .2562 .2563 .2574	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .81648 .98492 .73237 .65637 .65731 .73298 .81347 .89882 .65781 .73394 .81456	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18665 .18675 .18632 .17816 .17828 .17780 .17789 .17062 .17053 .16280 .16280	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16995 .16996 .16997 .16197	57 68 52 43 36 53 62 19 36 40 62 31 56 50 13 56 50 13 20 23
76002 76003 76004 76005 76006 76007 76008 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76021	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.041 51.044 46.372 46.375 46.375 46.380 42.211 42.212 42.214 42.216 38.251	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.826 126.472 126.406 126.406 126.406 126.406 126.408	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.5836 4.3141 24.2712	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2533 .2544 .2545 .2546 .2546 .2560 .2561	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .89648 .98492 .73237 .65637 .61318 .89770 .65731 .73298 .81347 .89882 .73394	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18665 .18675 .18632 .17816 .17828 .17780 .17789 .17789 .17066 .17028 .17062 .17053 .16280	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936 .16956 .16909 .16173	57 68 52 43 36 53 62 19 36 47 40 62 36 31 56 50 13 56 50 13
76002 76003 76004 76005 76006 76008 76009 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76020 76021 76023	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.041 51.044 46.372 46.375 46.380 42.211 42.212 42.214 42.214 38.249 38.251 38.254	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.826 126.472 126.472 126.472 126.472 126.472 126.473 125.932	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3811 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.6501 25.5836 24.3141 24.2712 24.2311	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2532 .2544 .2546 .2546 .2546 .2561 .2562 .2563 .2574	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .81648 .98492 .73237 .65637 .65731 .73298 .81347 .89882 .65781 .73394 .81456	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18665 .18675 .18632 .17816 .17828 .17780 .17789 .17062 .17053 .16280 .16280	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16995 .16996 .16997 .16197	57 68 52 43 36 53 62 19 36 40 62 31 56 50 13 56 50 13 20 23
76002 76003 76004 76005 76006 76007 76009 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76021 76022 76023 76024	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.378 46.380 42.211 42.212 42.214 42.214 38.259 38.259	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.193 126.585 126.585 126.472 126.472 126.472 126.406 126.406 126.406 126.406 126.408 126.433 126.738 126.738	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.65501 25.5836 24.3141 24.2712 24.2311 24.1974	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532 .2534 .2544 .2546 .2546 .2546 .2560 .2561 .2562 .2574 .2577	.81039 .89444 .98283 1.07654 .81186 .89579 .73129 .73223 .81169 .89648 .98492 .73237 .65637 .81318 .89770 .65731 .73298 .81347 .89882 .65781 .73394 .89882	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18665 .18675 .18632 .17816 .17828 .17780 .17789 .17766 .17066 .17053 .16280 .16280 .16280 .16292	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936 .16996 .16997 .16173 .16173	5768524336536219364740623650135650132417032323
76002 76003 76004 76005 76006 76007 76008 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76021 76022 76023 76024 76025 76026	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.380 42.211 42.212 42.214 42.214 42.216 38.255 38.255 34.731	126.038 126.258 126.425 126.444 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.826 126.472 126.403 125.826 126.472 126.406 126.406 126.406 126.408	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9661 25.6757 25.6501 25.5836 27.129 25.47141 24.2311 24.2712 24.2311 24.29717	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2533 .2544 .2545 .2546 .2546 .2560 .2561 .2562 .2574 .2575 .2577 .2577 .2577	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .89169 .89648 .98492 .73237 .65637 .81318 .89770 .65731 .73298 .81347 .89882 .65781 .73394 .81456 .89920 .865848	.20899 .20873 .20903 .20914 .19716 .19658 .19756 .18665 .18675 .18632 .17816 .17828 .17780 .17789 .17066 .17028 .17062 .17053 .16280 .16280 .16292 .16317 .15617	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17667 .176662 .16995 .16936 .16956 .16909 .16173 .16162 .16168 .15553 .15475	5768524336536219364740623650135650132417032323
76002 76003 76004 76005 76006 76007 76009 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76021 76023 76024 76025 76025 76027	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.378 46.380 42.211 42.212 42.214 42.214 38.259 38.255 34.728	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.826 126.472 126.472 126.649 125.932 126.472 126.473 125.826 126.473 125.826 126.406	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3811 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.6501 25.5836 24.3141 24.2712 24.2311 24.1974 23.0155 22.9717 22.9439	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2534 .2546 .2546 .2560 .2561 .2562 .2563 .2577 .2577 .2577 .2578 .2577 .2579 .2579 .2579 .2579	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .81169 .89648 .98492 .73237 .656731 .73298 .81347 .89882 .65781 .73394 .81456 .89920 .58654 .65848	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18665 .18675 .18632 .17816 .17780 .17789 .17789 .17062 .17053 .16280 .16280 .16292 .16317 .15563 .15569	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16995 .16936 .16977 .16173 .16162 .16173 .16162 .16168	57 68 52 43 36 53 62 19 36 47 40 62 31 56 50 15 20 23 24 17 03 23 24
76002 76003 76004 76005 76006 76007 76009 76010 76011 76012 76013 76014 76015 76016 76017 76018 76020 76021 76022 76023 76024 76025 76027 76028	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.375 46.380 42.211 42.212 42.214 42.216 38.249 38.255 34.731 34.731	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.103 125.824 126.103 125.824 126.406 126.472 126.406 126.406 126.406 126.406 126.408 126.433 126.738 126.995 125.862 126.408	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.65501 25.5836 24.3141 24.2712 24.2311 24.1974 23.0155 22.9717 22.9439 22.8883	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532 .2534 .2544 .2546 .2546 .2546 .2560 .2561 .2562 .2577 .2577 .2577 .2579 .2577 .2579 .2577	.81039 .89444 .98283 1.07654 .81186 .89579 .98461 .73129 .73223 .81169 .98492 .73237 .65537 .81318 .89770 .65731 .73298 .81347 .89882 .65781 .73394 .81456 .89920 .58654 .655848 .73439 .81518	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18665 .18675 .18632 .17816 .17828 .17780 .17789 .17066 .17053 .16280 .16280 .16280 .16292 .16317 .155617 .15569	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936	57685243365362193647406231565150133515202324170303
76002 76003 76004 76005 76006 76007 76008 76010 76011 76012 76013 76014 76016 76017 76018 76019 76020 76021 76022 76023 76025 76025 76027 76028 76029	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.039 51.039 51.044 46.372 46.375 46.378 46.380 42.211 42.212 42.214 42.214 38.249 38.251 38.255 34.731 34.732 34.733	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.826 126.472 126.649 125.932 126.649 125.932 126.649 125.932 126.649 126.906	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 27.0138 27.0523 26.9661 26.9661 26.9661 26.9657 25.6757 25.6507 25.6507 24.2311 24.2712 24.2311 24.2717 22.9439 22.8883 21.5861	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2533 .2544 .2545 .2546 .2546 .2560 .2561 .2562 .2574 .2575 .2577 .2577 .2577 .2577 .2579 .2590 .2590	.81039 .89444 .98283 1.07654 .81186 .89577 .98461 .73129 .73223 .81169 .89648 .98492 .73237 .65637 .81318 .89770 .65731 .73298 .81347 .65781 .73394 .81456 .8982 .58654 .65848 .73439 .81518	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18665 .18675 .18632 .17816 .17789 .17789 .17066 .17028 .177053 .16280 .16280 .16280 .16280 .16280 .16292 .16317 .15563 .15569 .15585	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17667 .17662 .16995 .16936 .16956 .1	57685243365362193647406231563156315631571520232417033703
76002 76003 76004 76005 76006 76007 76008 76009 76011 76012 76013 76014 76015 76016 76017 76018 76020 76021 76022 76023 76024 76025 76026 76027 76028 76029 76030	63.517 63.515 63.515 56.672 56.676 56.676 56.676 51.039 51.041 51.044 46.372 46.375 46.378 46.378 46.380 42.212 42.214 42.214 42.214 42.214 42.215 38.255 38.255 34.731 34.732 34.733 31.285	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.826 126.472 126.647 126.647 126.647 126.640 126.93 125.932 126.433 126.738 126.738 126.738 126.738 126.408 126.408 126.408 126.408 126.408 126.408 126.827 125.922 126.310	31.5280 31.4992 31.4770 31.4225 29.8632 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6557 25.6501 24.2311 24.2712 24.2311 24.2712 24.2311 24.2712 24.2311 24.2712 24.2311 24.2712 24.2311 24.2311 24.2712 24.2311 24.2311 24.2311 24.2311 24.2315 22.9717 22.9839 22.8883 21.53661 21.5357	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2533 .2544 .2545 .2546 .2546 .2560 .2561 .2562 .2574 .2575 .2576 .2577 .2577 .2589 .2590 .2590 .2590	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .73223 .81169 .89648 .98492 .73237 .65637 .81318 .89770 .65731 .73298 .81347 .89882 .65781 .73394 .81456 .89920 .58654 .73439 .81518 .58678	.20899 .20873 .20903 .20914 .19716 .19658 .19756 .18686 .18665 .18675 .18632 .17816 .17828 .17780 .17789 .17066 .17028 .17053 .16280 .16280 .16292 .16317 .15563 .15569 .15585 .14915	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17667 .176662 .16995 .16936 .16956 .1697 .16173 .16162 .16197 .16173 .16168 .15553 .15475 .15465 .15451 .14848 .14816	576852433653621936474062365013565013241703232417030323241703
76002 76003 76004 76005 76006 76007 76009 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76021 76023 76024 76025 76025 76028 76029 76029 76031	63.517 63.515 63.515 56.672 56.676 56.683 51.036 51.039 51.044 46.372 46.378 46.380 42.211 42.212 42.214 42.214 42.214 42.216 38.259 38.255 34.738 34.732 34.732 34.733 31.285 31.286	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.103 125.826 126.472 126.472 126.472 126.472 126.406 126.406 126.406 126.406 126.406 126.408	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.6501 25.56501 25.56501 24.3141 24.2311 24.2311 24.29439 22.8883 21.5861 21.5864	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2532 .2534 .2546 .2546 .2560 .2561 .2562 .2563 .2577 .2576 .2577 .2589 .2590 .2590 .2590 .2590 .2591	.81039 .89444 .98283 1.07654 .81186 .89577 .98461 .73129 .81169 .89492 .73237 .656731 .7328 .81347 .89882 .65781 .73394 .81456 .89920 .58654 .73439 .81518 .73439 .81518	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18665 .18675 .18632 .17816 .17828 .17780 .17789 .17789 .17062 .17053 .16280 .16280 .16280 .16280 .1657 .15563 .15569 .15569 .15569 .14911 .14911	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936 .16956 .16909 .16173 .16162 .16173 .16162 .16168 .15553 .15475 .15465 .15451 .14848 .14816 .14799	5768524336536219364740623156501335152023241703030393728101517
76002 76003 76004 76005 76006 76007 76009 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76021 76023 76024 76025 76026 76027 76028 76029 76031 76032	63.517 63.515 63.515 56.672 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.375 46.380 42.211 42.212 42.214 42.216 38.259 38.255 34.731 34.731 34.733 31.282 31.285 31.287	126.038 126.258 126.258 126.844 126.183 126.386 126.745 125.872 126.054 126.193 126.585 126.585 126.472 126.406 126.406 126.406 126.406 126.406 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.65501 25.5836 24.3141 24.2712 24.2311 24.2712 24.2311 24.1974 23.0155 22.9717 22.98883 21.5861 21.5357 21.5064 21.4595	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2533 .2544 .2546 .2546 .2546 .2546 .2560 .2561 .2562 .2577 .2589 .2577 .2589 .2590 .2590 .2590 .2590 .2590 .2604 .2604 .2604	.81039 .89444 .98283 1.07654 .81186 .89579 .73129 .73223 .81169 .98492 .73237 .65537 .81318 .89770 .65731 .73298 .81347 .89882 .65781 .73394 .81456 .89920 .58654 .65848 .73439 .81518 .58678	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18675 .18632 .17816 .17828 .17780 .17789 .17066 .17053 .16280 .16280 .16280 .16280 .16280 .16292 .16317 .15563 .15569 .15569 .15569 .14915 .14911 .14903	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936 .16996 .16936 .1	57685243365362193647406231565013351520232417030337281015
76002 76003 76006 76005 76006 76007 76008 76010 76011 76012 76013 76014 76016 76017 76018 76019 76020 76021 76022 76023 76025 76026 76027 76028 76029 76031 76032 76032 76032	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.372 46.378 46.378 46.380 42.211 42.212 42.214 42.214 38.249 38.251 38.251 38.255 34.731 34.732 34.733 31.285 31.286 31.287 28.728	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.824 126.472 126.649 125.932 126.649 125.932 126.649 125.932 126.649 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.908 126.908 126.908	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 27.0138 27.0523 26.9661 26.9661 26.9657 25.6757 25.6501 24.2712 24.2311 24.2717 22.9839 21.5861 21.5357 21.5064 21.5595 20.2110	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2532 .2534 .2546 .2546 .2560 .2561 .2562 .2563 .2577 .2576 .2577 .2589 .2590 .2590 .2590 .2590 .2591	.81039 .89444 .98283 1.07654 .81186 .89577 .98461 .73129 .81169 .89648 .98492 .73237 .65637 .81318 .89770 .65731 .73298 .81347 .65637 .73394 .81545 .8982 .58654 .65848 .73439 .81518 .58678 .65889 .73498	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18665 .18675 .18632 .17816 .17780 .17789 .17066 .17052 .17053 .16280 .16280 .16280 .16280 .16292 .16317 .15563 .15569 .15569 .15569 .14915 .14911 .14903 .14332	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17667 .17667 .176695 .16995 .16936 .16956 .16995 .16936 .16956	5768524336536219364740623631563156315631563155151517030337281015172620
76002 76003 76004 76005 76006 76007 76009 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76021 76023 76024 76025 76026 76027 76028 76029 76031 76032	63.517 63.515 63.515 56.672 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.375 46.380 42.211 42.212 42.214 42.216 38.259 38.255 34.731 34.731 34.733 31.282 31.285 31.287	126.038 126.258 126.258 126.844 126.183 126.386 126.745 125.872 126.054 126.193 126.585 126.585 126.472 126.406 126.406 126.406 126.406 126.406 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408 126.408	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.65501 25.5836 24.3141 24.2712 24.2311 24.2712 24.2311 24.1974 23.0155 22.9717 22.98883 21.5861 21.5357 21.5064 21.4595	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2533 .2544 .2546 .2546 .2546 .2546 .2560 .2561 .2562 .2577 .2589 .2577 .2589 .2590 .2590 .2590 .2590 .2590 .2604 .2604 .2604	.81039 .89444 .98283 1.07654 .81186 .89579 .73129 .73223 .81169 .98492 .73237 .65537 .81318 .89770 .65731 .73298 .81347 .89882 .65781 .73394 .81456 .89920 .58654 .65848 .73439 .81518 .58678	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18675 .18632 .17816 .17828 .17780 .17789 .17066 .17053 .16280 .16280 .16280 .16280 .16280 .16292 .16317 .15563 .15569 .15569 .15569 .14915 .14911 .14903	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936 .16996 .16936 .1	57685243365362193647406236501356501335152023170303030303030303
76002 76003 76006 76005 76006 76007 76008 76010 76011 76012 76013 76014 76016 76017 76018 76019 76020 76021 76022 76023 76025 76026 76027 76028 76029 76031 76032 76032 76032	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.372 46.378 46.378 46.380 42.211 42.212 42.214 42.214 38.249 38.251 38.251 38.255 34.731 34.732 34.733 31.285 31.286 31.287 28.728	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.824 126.472 126.649 125.932 126.649 125.932 126.649 125.932 126.649 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.908 126.908 126.908	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 27.0138 27.0523 26.9661 26.9661 26.9657 25.6757 25.6501 24.2712 24.2311 24.2717 22.9839 21.5861 21.5357 21.5064 21.5595 20.2110	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2532 .2533 .2544 .2545 .2546 .2546 .2560 .2561 .2563 .2574 .2577 .2577 .2577 .2577 .2577 .2577 .2590 .2590 .2591 .2603 .2604 .2605 .2601	.81039 .89444 .98283 1.07654 .81186 .89577 .98461 .73129 .81169 .89648 .98492 .73237 .65637 .81318 .89770 .65731 .73298 .81347 .65637 .73394 .81545 .8982 .58654 .65848 .73439 .81518 .58678 .65889 .73498	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18665 .18675 .18632 .17816 .17780 .17789 .17066 .17052 .17053 .16280 .16280 .16280 .16280 .16292 .16317 .15563 .15569 .15569 .15569 .14915 .14911 .14903 .14332	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17667 .17667 .176695 .16995 .16936 .16956 .16995 .16936 .16956	5768524336536219364740623631563156315631563155151517030337281015172620
76002 76003 76006 76005 76006 76007 76009 76010 76011 76012 76013 76014 76015 76016 76017 76018 76019 76020 76021 76021 76023 76024 76025 76026 76027 76028 76029 76031 76031 76031 76033 76034 76035	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.378 46.380 42.211 42.212 42.214 42.214 42.216 38.249 38.255 34.728 34.732 34.732 34.732 34.733 31.285 31.286 31.287 28.211	126.038 126.258 126.258 126.844 126.183 126.386 126.745 125.872 126.054 126.103 125.824 126.103 125.826 126.472 126.472 126.649 125.932 126.472 126.649 125.932 126.406 126.406 126.406 126.408	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.67501 25.57501 25.57501 25.57501 24.2311 24.29439 22.8883 21.5861 21.5964 21.5964 21.5964 21.5964 21.5964 21.5955 20.2110 20.1847 20.1427	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2532 .2533 .2544 .2546 .2546 .2560 .2561 .2562 .2577 .2576 .2577 .2577 .2577 .2579 .2577 .2590 .2590 .2591 .2604 .2604 .2605 .2618 .2619	.81039 .89444 .98283 1.07654 .81186 .89577 .98461 .73129 .81169 .98492 .73237 .656731 .7328 .81347 .89882 .65781 .73394 .81456 .89920 .58654 .65889 .73498 .81518 .58676 .52017 .58741	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18675 .18632 .17816 .17828 .17780 .17789 .17062 .17053 .16280 .16280 .16280 .16292 .16317 .15567 .15563 .15569 .15585 .14915 .14911 .14911 .14903 .14332 .14323	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17667 .17662 .16995 .16936 .16956 .1	57685243365362193647406236501356501335152023170303030303030303
76002 76003 76006 76005 76006 76007 76008 76009 76010 76011 76012 76013 76014 76015 76016 76020 76021 76022 76023 76024 76025 76026 76027 76028 76029 76031 76032 76033 76033 76035 76035	63.517 63.515 63.515 56.672 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.380 42.211 42.212 42.214 42.214 42.214 38.255 38.255 34.731 34.731 34.733 31.282 31.286 31.287 28.212 28.215	126.038 126.258 126.258 126.844 126.183 126.385 126.3872 126.054 126.195 126.585 126.585 126.406 126.408 126.408 126.827 125.822 126.827 125.822 126.827 125.826 126.827 125.826 126.827 125.826 126.827 125.826 126.827 125.826 126.827 125.826 126.827 125.826 126.827 125.826 126.827 125.826	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.65501 25.5836 24.3141 24.2712 24.2311 24.1974 23.0155 22.9717 22.9439 22.8883 21.5861 21.5357 21.5064 21.4595 20.2110 20.1847 20.1427 20.0967	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2533 .2544 .2546 .2546 .2546 .2546 .2546 .2560 .2561 .2577 .2577 .2577 .2577 .2577 .2590 .2591 .2603 .2604 .2605 .2617 .2619 .2619	.81039 .89444 .98283 1.07654 .81186 .89579 .73129 .81169 .98492 .73237 .65537 .81318 .89770 .65731 .73298 .81347 .89882 .65781 .73394 .81456 .89920 .58654 .65889 .73439 .81518 .58678 .65887 .73498 .81576 .52017 .58741 .573618	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18675 .18632 .17816 .17828 .17780 .17789 .17066 .17053 .16280 .16280 .16280 .16280 .16280 .16280 .16292 .16317 .15563 .15569 .15569 .15569 .14915 .14911 .14903 .14332 .14332 .14320 .14305	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936 .16999 .16197 .16173 .16168 .15553 .15475 .15465 .15475 .15451 .14848 .14816 .14799 .14765 .14268 .14268 .14268	576852433653621936474062315631563156152023241703033728101517262017262017
76002 76003 76006 76005 76006 76007 76008 76010 76011 76012 76013 76014 76016 76017 76018 76019 76020 76021 76022 76023 76025 76025 76027 76026 76027 76031 76031 76032 76033 76034 76033 76034	63.517 63.515 63.515 56.672 56.676 56.676 56.683 51.036 51.039 51.044 46.372 46.373 46.378 46.378 42.211 42.212 42.214 42.214 38.249 38.251 38	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.826 126.472 126.649 125.932 126.649 125.932 126.649 125.932 126.649 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.908 126	31.5280 31.4992 31.4770 31.4225 29.8632 29.8632 29.9072 28.3811 28.3626 28.3811 26.2605 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.6501 24.2712 24.2711 24.2717 22.9483 21.5861 21.5357 21.5064 21.5557 20.110 20.1847 20.1847 20.1847	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2533 .2544 .2545 .2546 .2546 .2560 .2561 .2562 .2577 .2577 .2577 .2577 .2577 .2577 .2577 .2590 .2590 .2591 .2603 .2604 .2605 .2617 .2619 .2619 .2619 .2619 .2935	.81039 .89444 .98283 1.07654 .81186 .89577 .98461 .73129 .81169 .89648 .98492 .73237 .65637 .81318 .89770 .65731 .73298 .81347 .65637 .73394 .81545 .65848 .73439 .81518 .58678 .65889 .73439 .81518 .58678 .65889 .73439 .81576 .65889 .73439 .81576 .65889 .73439 .81576 .65889 .73439 .81576 .52007	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18685 .18675 .18632 .17816 .17780 .17789 .17066 .17053 .16280 .16280 .16280 .16292 .16317 .15563 .15569 .15569 .15569 .15569 .14915 .14911 .14911 .14911 .14903 .14323 .14320 .14320 .14305	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .177667 .17662 .16995 .16936 .16995 .16936 .16956	576852433653621936474062315631571517202810172617261017263737373737373737
76002 76003 76004 76005 76006 76007 76008 76010 76011 76012 76013 76014 76015 76016 76017 76021 76022 76023 76024 76025 76026 76027 76029 76030 76031 76033 76034 76037 76038	63.517 63.515 63.515 56.672 56.676 56.683 51.036 51.039 51.041 51.044 46.372 46.378 46.378 46.380 42.211 42.214 42.214 42.214 42.214 42.215 38.255 34.731 34.732 34.731 34.732 34.732 34.731 34.732 34.731 34.732 34.733 35.474	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.103 125.826 126.103 125.826 126.472 126.649 125.932 126.472 126.649 125.932 126.406 126.406 126.906 126.408 126.906 126.408 126.905 125.826 126.827 125.826 126.827 125.826 126.827 125.826 126.827 125.922 126.808 126.808 126.809 126.809 126.809 126.900 126.408 126.827 125.922 126.900	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 26.2805 27.0138 27.00523 26.9661 26.9430 25.7727 25.6501 25.5757 25.6501 25.5836 24.3141 24.2712 24.2311 24.2712 24.2311 24.2712 21.5863 21.5863 21.5864 21.5864 21.5865 20.2110 20.1847 20.1427 20	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2533 .2544 .25546 .2546 .2561 .2562 .2576 .2577 .2576 .2577 .2589 .2577 .2589 .2590 .2590 .2590 .2604 .2604 .2604 .2619 .2619 .2935 .2936	.81039 .89444 .98283 1.07654 .81186 .89597 .98461 .73129 .8168 .98492 .73237 .65637 .81318 .89770 .65731 .73298 .81347 .89882 .65781 .73394 .81456 .89920 .58654 .73439 .81518 .58678 .73498 .81518 .58678 .73498 .81576 .52017 .58741 .65965 .73618 .52009 .58803	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18665 .18675 .18632 .17816 .17789 .17789 .17062 .17789 .17062 .17053 .16280 .16280 .16292 .16317 .15617 .15563 .15569 .15569 .15569 .15569 .14911 .14911 .14911 .14911 .14911 .14923 .14323 .14323 .14323 .14323 .14325 .13880	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936 .16956 .16936 .16956 .16955 .16457 .16162 .16168 .15553 .15455 .15451 .14848 .14775 .14848 .14779 .14765 .14268 .14268 .14268 .14218 .14177 .13804 .13787	576852433653621936501356501335152023170303030303030303
76002 76003 76004 76005 76006 76007 76009 76010 76011 76012 76013 76014 76017 76018 76019 76020 76021 76021 76023 76024 76023 76025 76026 76027 76028 76030 76031 76031 76032 76033 76038 76039	63.517 63.515 63.515 56.672 56.676 56.683 51.036 51.039 51.044 46.372 46.378 46.380 42.211 42.212 42.214 42.214 42.212 42.214 42.212 42.212 42.213 38.255 34.731 34.732 34.731 34.732 34.733 31.285 31.286 31.287 228.213 228.213 228.213 228.215 25.473 25.474 25.476	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.103 125.824 126.103 125.824 126.103 125.824 126.406 126.472 126.472 126.406 126.406 126.406 126.408 126.408 126.408 126.408 126.827 125.932 126.828 126.827 125.932 126.408 126.408 126.408 126.408 126.408 126.408 126.827 125.922 126.809	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.65501 25.55836 24.3141 24.2712 24.2311 24.1974 23.0155 22.9717 22.98883 21.5861 21.5357 22.9717 22.98883 21.5864 21.5557 20.110 20.1847 20.1427 20.0967 18.8642 18.88259 18.7746	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2532 .2532 .2533 .2544 .25546 .2560 .2561 .2562 .2563 .2577 .2576 .2577 .2578 .2577 .2590 .2590 .2590 .2591 .2604 .2604 .2604 .2619	.81039 .89444 .98283 1.07654 .81186 .89577 .98461 .73129 .73233 .81169 .98492 .73237 .656731 .7328 .81347 .89882 .65781 .73498 .81518 .58678 .65889 .73498 .81576 .52017 .58741 .65965 .73618 .52009 .58803	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18665 .18675 .18632 .17816 .17828 .17780 .17789 .17062 .17053 .16280 .16280 .16280 .16280 .16292 .16317 .15517 .15563 .15569 .15565 .14911 .14911 .14911 .14911 .14911 .14911 .14913 .14323 .14320 .14325 .13880 .13882	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18571 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936 .16999 .16197 .16173 .16162 .16168 .15553 .15455 .15455 .15455 .15451 .14848 .14816 .14799 .14765 .14268 .14277 .14268 .14277 .14277 .143804 .143787 .13759	57685243365362193647406231565013355015202324170337281172620172817
76002 76003 76006 76007 76008 76009 76010 76011 76012 76013 76014 76019 76010 76017 76018 76019 76020 76021 76022 76023 76024 76025 76026 76027 76028 76029 76031 76031 76032 76033 76034 76037 76039 76039 76039	63.517 63.515 63.515 56.672 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.378 46.380 42.211 42.212 42.214 42.214 38.249 38.255 34.731 34.731 34.733 31.282 31.285 31.286 31.287 28.212 28.213 28.215 28.215 28.215 25.476	126.038 126.258 126.258 126.425 126.844 126.183 126.386 126.376 125.872 126.054 126.195 125.824 126.103 125.824 126.406 126.406 126.406 126.406 126.406 126.406 126.406 126.406 126.406 126.406 126.406 126.408 126.433 126.495 125.862 126.406 126.408 126.408 126.408 126.408 126.827 125.922 126.8196 126.827 125.922 126.8196 126.408 126.827 125.922 126.8196 126.827 125.922 126.8196 126.898 125.866 126.898 126.898 126.4778 126.4778 126.4698 126.4972	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.65501 25.5836 24.3141 24.2712 24.2311 24.2712 24.2311 24.1974 23.0155 22.9717 22.9883 21.5861 21.5357 21.5064 21.4595 20.2110 20.1847 20	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2533 .2544 .2546 .2546 .2546 .2546 .2560 .2561 .2577 .2589 .2577 .2589 .2590 .2591 .2603 .2604 .2605 .2617 .2619 .2619 .2935 .2936 .2937	.81039 .89444 .98283 1.07654 .81186 .89579 .98461 .73129 .73223 .81169 .98492 .73237 .655637 .81318 .89770 .65731 .73298 .81347 .89882 .65781 .73394 .81518 .58678 .65899 .73658	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18675 .18632 .17816 .17889 .17789 .17066 .17053 .16280 .16280 .16280 .16280 .16280 .16280 .16292 .171557 .15567 .15567 .15567 .15567 .14911 .14903 .14332 .14323 .14323 .14323 .14320 .143875 .13882 .13879	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936 .16999 .16197 .16173 .16168 .15553 .15475 .15451 .14848 .14816 .14799 .14765 .14765 .14268 .14268 .14277 .13787 .13787 .13787	57685243365362193647406231565013351520232417030337281015172620172620172620122620122620282822
76002 76003 76006 76005 76006 76007 76008 76010 76011 76012 76013 76014 76016 76017 76018 76019 76020 76021 76022 76023 76025 76026 76027 76028 76029 76031 76032 76033 76034 76039 76039 76039 76039 76039 76040 76041	63.517 63.515 63.515 56.672 56.672 56.676 56.683 51.036 51.039 51.044 46.372 46.378 46.378 46.378 42.211 42.212 42.214 438.249 38.251 3	126.038 126.258 126.425 126.844 126.183 126.386 126.745 125.872 126.054 126.199 126.585 125.824 126.103 125.826 126.472 126.649 125.932 126.649 125.932 126.649 125.932 126.649 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.906 126.908 126.827 125.922 126.827 125.981 126.287 126.287 126.287 126.6980	31.5280 31.4992 31.4770 31.4225 29.8632 29.8632 29.9072 28.3811 28.3626 26.3611 26.2605 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.6501 24.2712 24.2711 24.2717 22.9433 21.5861 21.5357 21.5064 21.5357 21.5064 21.5357 21.5064 21.5357 21.5064 21.5357 21.5064 21.5357 21.5064 21.5357 21.5064 21.5357 21.5064 21.5357 21.5064 21.5357 21.5064 21.5357	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2533 .2544 .2545 .2546 .2546 .2560 .2561 .2562 .2577 .2577 .2577 .2577 .2577 .2577 .2590 .2590 .2591 .2603 .2604 .2604 .2605 .2617 .2619 .2935 .2936 .2937 .2936 .2937 .2948	.81039 .89444 .98283 1.07654 .81186 .89577 .98461 .73129 .81169 .89648 .98492 .73237 .65637 .81318 .89770 .65731 .73298 .81347 .65637 .81347 .65637 .73439 .81545 .65848 .73439 .81518 .58678 .65889 .73459 .81576 .5207 .58741 .6558741 .65589 .73618 .52009 .58803	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18665 .18675 .18632 .17816 .17780 .17789 .17066 .17053 .16280 .16280 .16280 .16292 .16317 .15563 .15569 .15569 .15569 .15569 .15569 .14915 .14911 .14911 .14911 .14911 .14903 .14323 .14323 .14320 .14305 .13875 .13880 .13882 .13879 .13328	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .177667 .17662 .16995 .16936 .16956 .16995 .16936 .16956	576852433653621936474062315631503135151720372810172606343338383838383838
76002 76003 76006 76007 76008 76009 76010 76011 76012 76013 76014 76019 76010 76017 76018 76019 76020 76021 76022 76023 76024 76025 76026 76027 76028 76029 76031 76031 76032 76033 76034 76037 76039 76039 76039	63.517 63.515 63.515 56.672 56.676 56.683 51.036 51.039 51.044 46.372 46.375 46.378 46.380 42.211 42.212 42.214 42.214 38.249 38.255 34.731 34.731 34.733 31.282 31.285 31.286 31.287 28.212 28.213 28.215 28.215 28.215 25.476	126.038 126.258 126.258 126.425 126.844 126.183 126.386 126.376 125.872 126.054 126.195 125.824 126.103 125.824 126.406 126.406 126.406 126.406 126.406 126.406 126.406 126.406 126.406 126.406 126.406 126.408 126.433 126.495 125.862 126.406 126.408 126.408 126.408 126.408 126.827 125.922 126.8196 126.827 125.922 126.8196 126.408 126.827 125.922 126.8196 126.827 125.922 126.8196 126.898 125.866 126.898 126.898 126.4778 126.4778 126.4698 126.4972	31.5280 31.4992 31.4770 31.4225 29.8632 29.8374 29.7900 29.9072 28.3811 28.3626 28.3117 28.2805 27.0138 27.0523 26.9661 26.9430 25.7129 25.6757 25.65501 25.5836 24.3141 24.2712 24.2311 24.2712 24.2311 24.1974 23.0155 22.9717 22.9883 21.5861 21.5357 21.5064 21.4595 20.2110 20.1847 20	.2500 .2501 .2502 .2503 .2516 .2517 .2518 .2519 .2531 .2532 .2533 .2544 .2546 .2546 .2546 .2546 .2560 .2561 .2577 .2589 .2577 .2589 .2590 .2591 .2603 .2604 .2605 .2617 .2619 .2619 .2935 .2936 .2937	.81039 .89444 .98283 1.07654 .81186 .89579 .98461 .73129 .73223 .81169 .98492 .73237 .655637 .81318 .89770 .65731 .73298 .81347 .89882 .65781 .73394 .81518 .58678 .65899 .73658	.20899 .20873 .20903 .20914 .19716 .19681 .19658 .19756 .18686 .18675 .18632 .17816 .17889 .17789 .17066 .17053 .16280 .16280 .16280 .16280 .16280 .16280 .16292 .171557 .15567 .15567 .15567 .15567 .14911 .14903 .14332 .14323 .14323 .14323 .14320 .143875 .13882 .13879	.001 .001 .001 .001 .001 .001 .001 .001	.20814 .20770 .20787 .20764 .19622 .19571 .19519 .19686 .18604 .18551 .18551 .18490 .17731 .17765 .17667 .17662 .16995 .16936 .16999 .16197 .16173 .16168 .15553 .15475 .15451 .14848 .14816 .14799 .14765 .14765 .14268 .14268 .14277 .13787 .13787 .13787	57685243365362193647406231565013351520232417030337281015172620172620172620122620122620282822

76043	23.048	126.701	17.5026	.2949	.66051	.13363	.001	.13241	.16
				2950	.73729	.13360	.001	.13209	.06
76044	23.049	127.096	17.4550						
76045	20.333	125.834	16.0685	.2960	.45705	.12765	.001	•12706	•12
76046	20.334	126.245	16.0210	. 2961	•52084	•12765	.001	.12676	•03
76047	20.335	126.466	15.9958	.2962	.58870	•12777	.001	.12672	.07
76048	20.336	126.861	15.9501	. 2962	.66099	.12780	.001	.12647	01
76049	18.349	125.950	14.8467	.2973	.45769	.12359	.001	.12292	.19
76050	18.350	126.245	14.8143	. 2974	.52115	.12357	.001	•12269	•09
	18.352	126.689	14.7657	2975	.58948	.12371	.001	.12251	.08
76051									
76052	18.352	127.016	14.7300	.2976	.66181	.12368	.001	.12225	04
76053	16.180	125.941	13.4390	. 2985	•45765	•11901	•001	.11835	•19
76054	16.181	126.333	13.3990	•2986	.52156	•11916	.001	•11822	.18
76055	16.182	126.803	13.3507	.2987	.58980	.11922	.001	•11795	.08
76056	16.183	127.138	13.3166	.2988	.66223	.11917	.001	.11766	07
76057	14.304	125.737	12.1640	.3001	.39863	.11505	.001	•11453	•23
76058	14.304	126.000	12.1394	.3001	.45791	.11492	.001	.11422	•02
		125.363							.07
76059	14.304		12.1036	.3002	• 52176	.11513	.001	•11417	
76060	14.304	126.963	12.0461	• 30 03	.59061	•11542	.001	•11404	•10
76061	12.491	125.915	10.8242	•3013	• 39892	•11124	.001	•11060	•14
76062	12.491	126.318	10.7894	.3014	•45877	•11147	.001	•11055	•18
75063	12.491	126.663	10.7592	.3015	.52257	.11138	.001	•11022	05
76064	12.492	127.066	10.7247	.3016	.59109	.11162	.001	.11018	00
76065	10.746	125.686	9.5039	.3026	.34388	.10739	.004	.10691	.01
76066	10.746	126.034	9.4765	.3027	.39925	.10768	.002	.10696	.11
76067	10.747	126.428	9.4463	.3028	•45890	.10777	•002	.10678	•01
76068	10.747	126.795	9.4178	•3029	• 52288	•10787	.001	•10662	06
76069	9.007	125.761	8.0985	.3044	.34442	.10395	.002	.10342	• 05
76070	9.007	125.038	8.0797	.3045	.39975	.10415	.001	.10343	.10
76071	9.007	126.435	8.0530	.3046	. 45962	.10440	.001	•10340	•13
76072	9.007	126.959	8.0180	.3047	.52413	.10450	.001	.10314	04
76073	7.340	125.452	6.7170	.3058	.29321	.10033	.002	.10002	08
76074	7.340	125.869	6.6935	. 3058	.34458	.10061	.002	.10001	03
76075	7.339	126.198	6.6747	• 30 59	.39995	•10076	.001	.09993	07
76076	7.340	126.597	6.6527	.3060	.45998	.10094	.001	.09983	11
76077	5.932	125.581	5.4859	•3070	.29336	.09782	.002	.09742	•10
76078	5.932	125.873	5.4724	.3071	.34467	.09784	.001	.09724	06
76079	5.932	126.384	5.4490	• 3072	.40052	.09813	.001	.09717	08
76080	5.932	126.857	5.4275	.3072	.46057	.09826	.001	.09698	23
76081	4.429	125.692	4.1369	.3088	.29353	.09501	.002	.09453	•08
76082	4.429	126.047	4.1246	.3088	.34482	.09514	.001	.09442	01
	4.429	126.532	4.1080						
76083				•3089	.40062	.09530	.001	.09424	16
76084	4.429	126.999	4.0921	.3090	•46075	.09552	.001	.09414	24
76085	2.893	125.557	2.7317	.3099	.24678	.09185	.004	.09147	14
74004									
76086	2.892	125.956	2.7223	.3099	.29398	.09254	.002	.09188	•33
76086	2.892	125.956 126.307	2.7223	.3099 .3100	.29398 .34527	.09254		.09188	
76087	2.893	126.307	2.7148	.3100	.34527	.09254 .09202	.001	.09188 .09112	•33 -•49
76087 76088	2.893 2.892	126.307 126.725	2.7148 2.7048	.3100 .3101	.34527 .40113	.09254 .09202 .09266	.001 .002	.09188 .09112 .09147	•33 -•49 -•08
76087 76088 76089	2.893 2.892 1.456	126.307 126.725 125.724	2.7148 2.7048 1.3836	.3100 .3101 .3114	.34527 .40113 .24709	.09254 .09202 .09266 .08920	.001 .002	.09188 .09112 .09147 .08870	.33 49 08 33
76087 76088 76089 76090	2.893 2.892 1.456 1.456	126.307 126.725 125.724 126.041	2.7148 2.7048 1.3836 1.3797	.3100 .3101 .3114 .3115	.34527 .40113 .24709 .29426	.09254 .09202 .09266 .08920 .08940	.001 .002 .002	.09188 .09112 .09147 .08870 .08868	.33 49 08 33 35
76087 76088 76089 76090 76091	2.893 2.892 1.456 1.456 1.455	126.307 126.725 125.724 126.041 126.558	2.7148 2.7048 1.3836 1.3797 1.3740	.3100 .3101 .3114 .3115	.34527 .40113 .24709 .29426 .34598	.09254 .09202 .09266 .08920 .08940 .08955	.001 .002 .002 .002	.09188 .09112 .09147 .08870 .08868 .08848	.33 49 08 33 35 57
76087 76088 76089 76090	2.893 2.892 1.456 1.456	126.307 126.725 125.724 126.041	2.7148 2.7048 1.3836 1.3797	.3100 .3101 .3114 .3115	.34527 .40113 .24709 .29426	.09254 .09202 .09266 .08920 .08940	.001 .002 .002	.09188 .09112 .09147 .08870 .08868	.33 49 08 33 35
76087 76088 76089 76090 76091	2.893 2.892 1.456 1.456 1.455	126.307 126.725 125.724 126.041 126.558	2.7148 2.7048 1.3836 1.3797 1.3740	.3100 .3101 .3114 .3115	.34527 .40113 .24709 .29426 .34598	.09254 .09202 .09266 .08920 .08940 .08955 .08999	.001 .002 .002 .002	.09188 .09112 .09147 .08870 .08868 .08848	.33 49 08 33 35 57
76087 76088 76089 76090 76091	2.893 2.892 1.456 1.456 1.455	126.307 126.725 125.724 126.041 126.558	2.7148 2.7048 1.3836 1.3797 1.3740	.3100 .3101 .3114 .3115	.34527 .40113 .24709 .29426 .34598	.09254 .09202 .09266 .08920 .08940 .08955 .08999	.001 .002 .002 .002	.09188 .09112 .09147 .08870 .08868 .08848 .08855	.33 49 08 33 35 57 47
76987 76088 76089 76090 76091 76092	2.893 2.892 1.456 1.456 1.455 1.456	126.307 126.725 125.724 126.041 126.558 127.085	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681	.3100 .3101 .3114 .3115	.34527 .40113 .24709 .29426 .34598	.09254 .09202 .09266 .08920 .08940 .08955 .08999	.001 .002 .002 .002	.09188 .09112 .09147 .08870 .08868 .08848	.33 49 08 33 35 57 47
76087 76088 76089 76090 76091	2.893 2.892 1.456 1.456 1.455 1.456	126.307 126.725 125.724 126.041 126.558	2.7148 2.7048 1.3836 1.3797 1.3740	.3100 .3101 .3114 .3115	.34527 .40113 .24709 .29426 .34598	.09254 .09202 .09266 .08920 .08940 .08955 .08999	.001 .002 .002 .002	.09188 .09112 .09147 .08870 .08868 .08848 .08855	.33 49 08 33 35 57 47
76987 76088 76089 76090 76091 76092	2.893 2.892 1.456 1.456 1.455 1.456	126.307 126.725 125.724 126.041 126.558 127.085	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681	.3100 .3101 .3114 .3115 .3115	.34527 .40113 .24709 .29426 .34598 .40227	.09254 .09202 .09266 .08920 .08940 .08955 .08999	.001 .002 .002 .002 .002	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor	.33 49 08 33 35 57 47
76987 76088 76089 76090 76091 76092	2.893 2.892 1.456 1.456 1.455 1.456	126.307 126.725 125.724 126.041 126.558 127.085	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .24709 .29426 .34598 .40227	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal	.001 .002 .002 .002 .002	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K	.33 49 08 33 35 57 47 inductivity deviation expceic.
76987 76088 76089 76090 76091 76092	2.893 2.892 1.456 1.456 1.455 1.456	126.307 126.725 125.724 126.041 126.558 127.085	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .24709 .29426 .34598 .40227	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K	.001 .002 .002 .002 .002 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K	.33 49 08 33 35 57 47 ductivity deviation expceic. percent
76987 76088 76089 76090 76091 76092	2.893 2.892 1.456 1.456 1.455 1.456 Pressure MPa 12.728	126.307 126.725 125.724 126.041 126.558 127.085	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .24709 .29426 .34598 .40227	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K	.001 .002 .002 .002 .002 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K	.33490833355747 nductivity deviation expcaic. percent
76987 76088 76089 76090 76091 76092 Run Pt.	2.893 2.892 1.456 1.456 1.455 1.456 Pressure MPa 12.728 12.727	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .24709 .29426 .34598 .40227	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K	.001 .002 .002 .002 .001 STAT	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K	.33 49 08 33 35 57 47 ductivity deviation expceic. percent .38 .57
76987 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003	2.893 2.892 1.456 1.456 1.455 1.456 Pressure MPa 12.728 12.727	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .24709 .29426 .34598 .40227	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K	.001 .002 .002 .002 .002 .001 STAT	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K	.33 49 08 33 35 57 47 inductivity deviation expceic. percent .38 .57 .48
76987 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004	2.893 2.892 1.456 1.456 1.455 1.456 Pressure MPa 12.728 12.727 12.727	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .24709 .29426 .34598 .40227 Power W/m .34298 .39824 .45795 .52196	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095	.001 .002 .002 .002 .002 .001 STAT	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990	.33 49 08 33 35 57 47 ductivity deviation expcalc. percent .38 .57 .48
76987 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005	2.893 2.892 1.456 1.456 1.455 1.456 Pressure MPa 12.728 12.727 12.727 12.727 11.333	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868	.3100 .3101 .3114 .3115 .3115 .3116 .3116	.34527 .40113 .24709 .29426 .34598 .40227 Power W/m .34298 .39824 .45795 .52196 .34309	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746	.001 .002 .002 .002 .001 STAT .002 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K	.33 49 08 33 35 57 47 deviation expcaic. percent .38 .57 .48
76987 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 757005 75006	2.893 2.892 1.456 1.456 1.455 1.456 Pressure MPa 12.728 12.727 12.727 12.727 11.333 11.334	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density mol/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523	.3100 .3101 .3114 .3115 .3115 .3116 per e frection .2500 .2500 .2500 .2500 .2500	.34527 .40113 .2470 .29426 .34598 .40227 POWER W/m .34298 .39824 .45795 .52196 .34309 .39832	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675	.33490833355747 deviation expceic. percent .38 .57 .48 .53 .47 .14
76987 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75006 75007	2.893 2.892 1.456 1.456 1.455 1.456 Pressure MPa 12.728 12.727 12.727 12.727 11.333 11.334 11.334	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9555	.3100 .3101 .3114 .3115 .3115 .3116 para frection .2500 .2500 .2500 .2500 .2500 .2500	.34527 .40113 .2470 .29426 .34598 .40227 Power W/m .34298 .39824 .45795 .52196 .34309 .45778	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706	.33490833355747 ductivity deviation expcaic. percent .38 .57 .48 .53 .47 .14
76987 76088 76099 76091 76092 Run Pt. 75001 75002 75003 75004 75006 75007 75008	2.893 2.892 1.456 1.456 1.455 1.456 1.456 1.2727 12.727 12.727 12.727 12.727 11.333 11.334 11.334	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828	.3100 .3101 .3114 .3115 .3115 .3116 .3116 .3100 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.34527 .40113 .2470 .29426 .34598 .40227 POWER W/m .34298 .39824 .45795 .52196 .34309 .39832	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675	.33 49 08 33 35 57 47 devision expceic. percent .38 .57 .48 .53
76987 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75006 75007 75008 75009	2.893 2.892 1.456 1.456 1.455 1.456 1.456 1.456 Pressure MPa 12.728 12.727 12.727 12.727 11.333 11.334 11.334 9.891	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9555	.3100 .3101 .3114 .3115 .3115 .3116 para frection .2500 .2500 .2500 .2500 .2500 .2500	.34527 .40113 .2470 .29426 .34598 .40227 Power W/m .34298 .39824 .45795 .52196 .34309 .45778	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08868 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10675 .10687	.33490833355747 ductivity deviation expcaic. percent .38 .57 .48 .53 .47 .14
76987 76088 76099 76091 76092 Run Pt. 75001 75002 75003 75004 75006 75007 75008	2.893 2.892 1.456 1.456 1.455 1.456 1.456 Pressure MPa 12.728 12.727 12.727 12.727 11.333 11.334 11.334	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.160 126.665	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8273	.3100 .3101 .3114 .3115 .3115 .3116 .3116 .3116 .3100 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.34527 .40113 .24709 .29426 .34598 .40227 Power W/m .34298 .39824 .4579 .52196 .34309 .39832 .45778 .52199 .34357	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783 .10800 .10420	.001 .002 .002 .002 .001 STAT .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10377	.33490833355747 deviation expcaic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11
76987 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75006 75007 75008 75009	2.893 2.892 1.456 1.456 1.455 1.456 1.456 1.456 Pressure MPa 12.728 12.727 12.727 12.727 11.333 11.334 11.334 9.891	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.636	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8273 8.8095	.3100 .3101 .3114 .3115 .3115 .3116 .3116 .3116 .3116 .3116 .3116 .3116	.34527 .40113 .2470 .29426 .34598 .40227 POWER W/m .34298 .39824 .45795 .52196 .39832 .45778 .52199 .39832 .45778	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11075 .11095 .10746 .10730 .10783 .10800 .10420 .10471	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10377 .10412	.33490833355747 deviation expceic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49
76987 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75006 75007 75008 75009 75010	2.893 2.892 1.456 1.456 1.455 1.456 1.456 1.456 12.728 12.727 12.727 12.727 12.727 11.333 11.334 11.334 11.334 9.891 9.892 9.892	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 126.813 126.140 126.665 125.882 125.882	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8273 8.8095 8.7875	.3100 .3101 .3114 .3115 .3115 .3116 para frection .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	-34527 -40113 -2470 -29426 -34598 -40227 	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783 .10800 .10420 .10420 .10420	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10377 .10412 .10400	.33490833355747 devision expceic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75006 75007 75008 75009 75011 75012	2.893 2.892 1.456 1.456 1.455 1.456 1.456 1.456 1.456 12.728 12.727 12.727 12.727 11.333 11.334 11.334 9.891 9.892 9.892 9.892	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.636 125.636 125.636 125.636	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9555 9.8828 8.8273 8.8095 8.7875 8.7480	.3100 .3101 .3114 .3115 .3115 .3116 Para frection .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500 .2500	.34527 .40113 .24709 .29426 .34598 .40227 Power W/m .34298 .39824 .45795 .52196 .34309 .39832 .45778 .52199 .34357 .52199 .34357 .52265	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783 .10800 .10420 .10420 .10471 .10480 .10503	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08868 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10675 .10687 .10377 .10412 .10400 .10386	.33490833355747 deviation expcelc. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44
76987 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75004 75005 75006 75007 75008 75009 75010 75011 75012 75013	2.893 2.892 1.456 1.456 1.455 1.456 1.456 1.456 1.456 1.4727 12.727 12.727 12.727 11.333 11.334 11.334 11.334 9.891 9.892 9.892 9.892 8.514	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.160 126.665 125.882 126.182 126.734 125.709	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9523 9.9555 9.8828 8.8273 8.8095 8.7875 8.7480 7.6938	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .24709 .29426 .34598 .40227 Power W/m .34298 .39824 .45779 .32199 .39832 .45778 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10733 .10783 .10800 .10420 .10471 .10480 .10503 .10503 .1079	.001 .002 .002 .002 .001 STAT .002 .001 .001 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K w/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10675 .10706 .10687 .10377 .10412 .10400 .10386 .10131	.33490833355747 deviation expceic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .48
76987 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75006 75007 75008 75011 75012 75013 75014	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 12.727 12.727 12.727 12.727 11.333 11.334 11.334 11.334 9.891 9.892 9.892 9.892 9.892 9.892 9.892 9.892 9.892	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.636 125.636 125.636 125.636 125.709 126.053	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8273 8.8095 8.7875 8.7875 8.7480 7.6938 7.6720	.3100 .3101 .3114 .3115 .3115 .3116	-34527 -40113 -2470 -29426 -34598 -40227 Power W/m -34298 -39824 -45778 -52196 -34309 -39832 -45778 -52196 -34397 -52265 -34379 -39899	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783 .10800 .10471 .10480 .10503 .10179 .10183	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10706 .10687 .10377 .10412 .10400 .10386 .10131 .10112	.33490833355747 deviation expcaic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .40 .48 .34
76987 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75006 75007 75008 75009 75010 75011 75012 75013 75014 75015	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 12.727 12.727 12.727 12.727 11.333 11.334 11.335 11.3	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.882 126.656 125.882 126.734 125.734 125.709 126.734	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density mol/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8273 8.8273 8.7480 7.6938 7.6938 7.6494	.3100 .3101 .3114 .3115 .3115 .3116	-34527 -40113 -2470 -29426 -34598 -40227 	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11075 .11095 .10746 .10730 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10412 .10400 .10386 .10131 .10112	.33490833355747 deviation expceic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .48 .34 .39
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75008 75009 75011 75012 75013 75014 75015 75016	2.893 2.892 1.456 1.456 1.455 1.456 1.456 1.456 1.456 12.727 12.727 12.727 12.727 12.727 11.333 11.334 11.334 11.334 9.891 9.892 9.892 9.892 9.892 9.892 8.514 8.514 8.514	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.636 125.636 125.636 125.636 125.709 126.734 125.709	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8273 8.8095 8.7875 8.7875 8.7480 7.6938 7.6730 7.6494 7.6157	.3100 .3101 .3114 .3115 .3115 .3116 Para frection .2500 .25	-34527 -40113 -2470 -29426 -34598 -40227 	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10748 .10800 .10420 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .10224	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08868 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .1016 .10995 .10990 .10720 .10675 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112	.33490833355747 deviation expcelc. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .48 .39 .30
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75006 75007 75008 75010 75011 75012 75013 75014 75015 75016 75017	2.893 2.892 1.456 1.456 1.455 1.456 1.456 1.456 1.456 1.456 1.456 1.727 12.727 12.727 12.727 11.333 11.334 11.335	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.813 126.160 125.882 126.665 125.882 126.160 126.053 126.053 126.053 126.096	2.7148 2.7048 1.3681 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8273 8.8095 8.7875 8.7480 7.6938 7.6720 7.6494 7.63701	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .24709 .29426 .34598 .40227 Power W/m .34298 .39824 .45779 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10783 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .10224 .09846	.001 .002 .002 .002 .001 STAT .002 .001 .001 .001 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K w/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10094 .09803	.33490833355747 nductivity deviation expcaic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .48 .34 .39 .30 .34
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75006 75007 75008 75011 75012 75013 75014 75015 75016 75017 75018	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 12.727 12.727 12.727 12.727 11.333 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.351 8.514 8.514 8.514 8.514 8.514 8.514 8.514	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.159 126.549 125.391 125.813 126.140 126.665 125.882 126.182 126.734 125.709 126.053 126.405 125.643 125.643	2.7148 2.7048 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.88278 8.8273 8.8095 8.7875 8.7480 7.6938 7.6720 7.6494 7.6157 6.3701 6.3482	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .2470 .29426 .34598 .40227 Power W/m .34298 .39824 .45778 .52196 .34309 .39832 .45778 .52196 .34357 .52265 .34379 .52265 .34379 .52365 .34364 .39911	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .10224 .09846 .09874	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08868 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .1016 .10995 .10990 .10720 .10675 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112	.33490833355747 deviation expcelc. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .48 .39 .30
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75006 75007 75008 75007 75010 75011 75012 75013 75014 75015 75016 75017 75018	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 12.727 12.727 12.727 12.727 11.333 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.34 11.35 1	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.636 125.882 126.734 125.739 126.053 126.053 126.053 126.053	2.7148 2.7048 1.3681 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8273 8.8095 8.7875 8.7480 7.6938 7.6720 7.6494 7.63701	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .24709 .29426 .34598 .40227 Power W/m .34298 .39824 .45779 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357 .52199 .34357	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10783 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .10224 .09846	.001 .002 .002 .002 .001 STAT .002 .001 .001 .001 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K w/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10094 .09803	.33490833355747 nductivity deviation expcaic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .48 .34 .39 .30 .34
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75006 75007 75008 75011 75012 75013 75014 75015 75016 75017 75018	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 12.727 12.727 12.727 12.727 11.333 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.351 8.514 8.514 8.514 8.514 8.514 8.514 8.514	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.159 126.549 125.391 125.813 126.140 126.665 125.882 126.182 126.734 125.709 126.053 126.405 125.643 125.643	2.7148 2.7048 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.88278 8.8273 8.8095 8.7875 8.7480 7.6938 7.6720 7.6494 7.6157 6.3701 6.3482	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .2470 .29426 .34598 .40227 Power W/m .34298 .39824 .45778 .52196 .34309 .39832 .45778 .52196 .34357 .52265 .34379 .52265 .34379 .52365 .34364 .39911	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .10224 .09846 .09874	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10706 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10094 .09803 .09804	.33490833355747 deviation expceic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .48 .34 .39 .30 .34 .40 .37
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75006 75007 75008 75007 75010 75011 75012 75013 75014 75015 75016 75017 75018	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 12.727 12.727 12.727 12.727 11.333 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.34 11.35 1	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.636 125.882 126.734 125.739 126.053 126.053 126.053 126.053	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density mol/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.88278 8.8095 8.7875 8.7480 7.66938 7.6720 7.6494 7.6157 6.3701 6.3482 6.3237	.3100 .3101 .3114 .3115 .3115 .3116	-34527 -40113 -2470 -29426 -34598 -40227 	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .10224 .09846 .09877 .09818	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08868 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .1016 .10995 .10990 .10720 .10675 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10112 .10094 .09803 .09804 .09795	.33490833355747 deviation expcelc. percent .38 .57 .48 .53 .47 .11 .49 .40 .48 .34 .40 .48 .39 .30 .34 .40 .37 .22
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75006 75007 75008 75010 75011 75012 75013 75014 75015 75016 75017 75018 75017 75018 75019 75020 75021	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.727 12.727 12.727 12.727 11.333 11.334 11.335 1	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.549 125.391 125.813 126.160 126.665 125.882 126.162 126.053 126.053 126.053 126.053 126.053	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9523 9.9523 9.9525 9.8828 8.8273 8.8095 8.7875 8.7480 7.6938 7.6720 7.6494 7.6157 6.3368 5.3237 6.3368 5.1550	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .24709 .29426 .34598 .40227 Power W/m .34298 .39824 .45778 .52199 .39832 .45778 .52199 .34357 .52199 .34357 .5245 .34364 .39811 .45901 .45901 .45901 .45901 .45901 .45901 .45901 .45901 .45901 .45901 .45901 .45901 .45901 .45901 .45901 .45901	.09254 .09202 .09206 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .09874 .09874 .09877	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K w/m.K .11005 .11016 .10990 .10720 .10675 .10990 .10720 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10112 .10112 .1094 .09803 .09804 .09795 .09795	.33490833355747 deviation expcaic percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .48 .34 .39 .30 .34 .40 .37 .22 .17
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75006 75007 75008 75011 75011 75012 75013 75014 75015 75016 75017 75018 75019 75020 75021	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 12.727 12.727 12.727 12.727 11.333 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.351	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.636 125.882 126.182 126.734 125.709 126.053 126.405 125.636 125.636 125.882	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.88278 8.8095 8.7875 8.7875 8.7875 8.7875 8.7875 8.7875 9.6938 7.6720 7.6494 7.6157 6.3482 6.3237 6.3482 6.3237 6.3368 5.1550 5.1361	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .2470 .29426 .34598 .40227 Power W/m .34298 .39824 .45775 .52196 .34309 .39832 .45778 .52196 .34357 .52196 .34357 .52196 .34357 .52196 .34364 .3984 .45901 .2924 .3984	.09254 .09202 .09206 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10730 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .10224 .09846 .09874 .09877 .09818	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10675 .10777 .10412 .10400 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10112 .10112 .10112 .10995 .09803 .09804 .09795 .09795	.33490833355747 deviation expcaic. percent .38 .57 .48 .53 .47 .14 .50 .41 .49 .44 .40 .48 .34 .39 .30 .34 .40 .37 .22 .17 .34
76087 76088 76089 76090 76091 76092 75001 75002 75003 75006 75007 75008 75007 75011 75012 75013 75014 75015 75016 75017 75018 75019 75020 75021 75020 75023	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 12.727 12.727 12.727 12.727 12.727 12.727 12.727 12.727 12.929 12.727	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 125.636 125.636 125.636 125.636 125.636 125.636 125.636 125.636 125.636 125.636 125.636 125.636 125.636	2.7148 2.7048 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8095 8.7875 8.7875 8.7480 7.66938 7.6720 7.6494 7.6157 6.3701 6.3482 6.3237 6.3482 6.3237 6.3482 6.3237 6.3482 6.3237 6.3482 6.3237 6.3482 6.3237 6.3482	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .2470 .29426 .34598 .40227 Power W/m .34298 .39824 .45795 .52199 .39832 .45778 .52199 .34583 .45837 .52265 .34389 .45875 .52306 .34389 .45875 .52306 .34389 .45901 .29249 .34418 .45988	.09254 .09202 .09206 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11075 .10746 .10730 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .10224 .09846 .09874 .09897 .09818 .09570 .09611 .09634	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10706 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10112 .10094 .09803 .09804 .09795 .09795 .09795 .09795	.334908355747 deviation expcaic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .34 .39 .30 .34 .40 .37 .22 .17 .34 .35
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75006 75007 75008 75009 75010 75011 75012 75013 75014 75015 75016 75017 75018 75019 75020 75021 75022 75023 75024	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 12.727 12.727 12.727 12.727 11.333 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.351	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.882 126.882 126.734 125.709 126.734 125.709 126.505 125.643 125.643 126.936 125.643 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.848	2.7148 2.7048 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8275 8.7875 8.7480 7.6494 7.6157 6.3701 6.3482 6.3237 6.3868 5.1550 5.1198 5.1690	.3100 .3101 .3114 .3115 .3115 .3116	-34527 -40113 -2470 -29426 -34598 -40227 	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783 .10800 .10420 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .10224 .09846 .09877 .09818 .09570 .09634 .09554	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08868 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .1016 .10990 .10720 .10675 .10990 .10720 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10112 .10112 .10094 .09803 .09795 .09795 .09795 .09795	.33490833355747 deviation expcelc. percent .38 .57 .48 .50 .47 .11 .49 .40 .48 .34 .39 .30 .34 .40 .48 .37 .22 .17 .34 .20
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75004 75005 75006 75007 75008 75010 75011 75012 75013 75014 75015 75016 75017 75018 75017 75018 75019 75022 75023 75022 75023 75025	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.727 12.727 12.727 12.727 11.333 11.334 11.335 1	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.549 125.391 125.813 126.160 126.665 125.882 126.160 126.665 125.882 126.160 126.053 126.053 126.053 126.050 126.053 126.050 126.053	2.7148 2.7048 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8273 8.8095 8.7875 8.7480 7.6938 7.6720 7.6494 7.6157 6.3368 5.1550 5.1361 5.1198 5.1690 3.8865	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .24709 .29426 .34598 .40227 Power W/m .34298 .39824 .45779 .52199 .34357 .52199 .34357 .52199 .34357 .5245 .34364 .39811 .45901 .29249 .34414 .39984 .45988 .29331	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .09874 .09874 .09874 .09877 .09818 .09570 .09611 .09634 .09554 .09554	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K w/m.K .11005 .11016 .10990 .10720 .10675 .10990 .10720 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10112 .10112 .10112 .10112 .10094 .09803 .09804 .09795 .09795 .09795 .09795 .09523 .09519 .09228	.33 49 08 33 35 57 47 deviation expceic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .34 .39 .30 .37 .22 .17 .34 .35
76087 76088 76089 76090 76091 76092 Run Pt. 75001 75002 75003 75004 75005 75006 75007 75011 75011 75012 75013 75014 75015 75016 75017 75018 75017 75018 75019 75020 75021 75023 75024 75025 75026	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.3727 12.727 12.727 12.727 11.333 11.334 11.335 11.334 11.335 11.335 11.335 11.336 1	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.636 125.882 126.182 126.734 125.709 126.053 126.405 125.636 125.636 125.882 126.734 125.709 126.953 126.405 125.636 125.636 125.636 125.636	2.7148 2.7048 1.3836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9523 9.952	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .2470 .29426 .34598 .40227 Power W/m .34298 .39824 .45778 .52196 .34309 .39832 .45778 .52196 .34357 .52196 .34357 .52196 .34357 .52199 .34364 .39911 .45901 .29231 .34453	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10730 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10224 .09874 .09874 .09874 .09877 .09818 .09570 .09611 .09634 .09554 .09274 .09285	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10112 .10112 .10112 .10094 .09803 .09804 .09795 .09523 .09519 .09523 .09519 .09228	.33490833355747 deviation expcaic. percent .38 .57 .48 .53 .47 .14 .50 .41 .49 .44 .40 .37 .22 .17 .34 .35 .20 .21 .16
76087 76088 76089 76090 76091 76092 75001 75002 75003 75006 75007 75008 75007 75011 75012 75013 75014 75015 75016 75017 75018 75019 75020 75021 75021 75021 75023 75024 75025 75027	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.4727 12.727	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.636	2.7148 2.7048 2.7048 1.33836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8095 8.7875 8.7875 8.76938 7.6720 7.6494 7.6157 6.3368 5.1550 5.1361 5.1198 5.1690 3.8065 3.7815	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .2470 .29426 .34598 .40227 Power W/m .34298 .39824 .45779 .524309 .39832 .45779 .34357 .52265 .34379 .34583 .45837 .52265 .34379 .45875 .52306 .34364 .45901 .29249 .34444 .45988 .29300 .29331 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .459888 .459888 .45988 .45988 .45988 .45988 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .4	.09254 .09202 .09206 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .10224 .09846 .09874 .09897 .09818 .09554 .09274 .09285 .09234	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10112 .10094 .09803 .09804 .09795 .09795 .09795 .09795 .09523 .09525 .09523 .09521 .09235	.33490833355747 deviation expcaic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .48 .39 .30 .34 .40 .37 .22 .17 .34 .35 .20 .21 .16 .34
76087 76088 76089 76090 76091 76092 75001 75002 75003 75004 75006 75007 75008 75009 75011 75012 75013 75014 75015 75016 75017 75018 75017 75018 75020 75021 75022 75023 75024 75025 75028	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 12.727 12.727 12.727 12.727 11.333 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.334 11.351	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.882 126.182 126.734 125.709 126.053 126.936 125.882 126.182 126.734 125.709 126.053 126.405 125.643 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.848 126.936 125.94 125.994 125.994 125.994 125.995	2.7148 2.7048 2.7048 1.3836 1.3797 1.3740 1.3681 Density mol/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8095 8.7875 8.7480 7.6494 7.6157 6.3701 6.3482 6.3237 6.3868 5.1550 5.1361 5.1198 5.1690 3.8065 3.7982 3.7815	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .2470 .29426 .34598 .40227 Power W/m .34298 .39824 .45795 .52196 .34369 .345778 .52199 .34583 .45778 .52199 .34357 .52265 .34357 .52265 .34364 .3578 .39814	.09254 .09202 .09266 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10730 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10224 .09874 .09874 .09874 .09877 .09818 .09570 .09611 .09634 .09554 .09274 .09285	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10112 .10112 .10112 .10094 .09803 .09804 .09795 .09523 .09519 .09523 .09519 .09228	.33490833355747 deviation expcaic. percent .38 .57 .48 .53 .47 .14 .50 .41 .49 .44 .40 .37 .22 .17 .34 .35 .20 .21 .16
76087 76088 76089 76090 76091 76092 75001 75002 75003 75006 75007 75008 75007 75011 75012 75013 75014 75015 75016 75017 75018 75019 75020 75021 75021 75021 75022 75023 75024 75025 75027	2.893 2.892 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.456 1.4727 12.727	126.307 126.725 125.724 126.041 126.558 127.085 Tempereture K 125.345 125.709 126.129 126.549 125.391 125.813 126.140 126.665 125.636	2.7148 2.7048 2.7048 1.33836 1.3797 1.3740 1.3681 Density moi/L 11.0524 11.0191 10.9813 10.9439 9.9868 9.9523 9.9255 9.8828 8.8095 8.7875 8.7875 8.76938 7.6720 7.6494 7.6157 6.3368 5.1550 5.1361 5.1198 5.1690 3.8065 3.7815	.3100 .3101 .3114 .3115 .3115 .3116	.34527 .40113 .2470 .29426 .34598 .40227 Power W/m .34298 .39824 .45779 .524309 .39832 .45779 .34357 .52265 .34379 .34583 .45837 .52265 .34379 .45875 .52306 .34364 .45901 .29249 .34444 .45988 .29300 .29331 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .45988 .29333 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .459888 .459888 .459888 .45988 .45988 .45988 .45988 .459888 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .45988 .4	.09254 .09202 .09206 .08920 .08940 .08955 .08999 Experimental Thermal Conductivity W/m.K .11028 .11064 .11072 .11095 .10746 .10730 .10783 .10800 .10420 .10471 .10480 .10503 .10179 .10183 .10206 .10224 .09846 .09874 .09897 .09818 .09554 .09274 .09285 .09234	.001 .002 .002 .002 .001 .001 .001 .001	.09188 .09112 .09147 .08870 .08868 .08848 .08855 Adj. Thermal Cor Nom. Temperature 125.0 K W/m.K .11005 .11016 .10995 .10990 .10720 .10675 .10706 .10687 .10377 .10412 .10400 .10386 .10131 .10112 .10112 .10112 .10094 .09803 .09804 .09795 .09795 .09795 .09795 .09523 .09525 .09523 .09521 .09235	.334908355747 deviation expcaic. percent .38 .57 .48 .53 .47 .14 .50 .43 .11 .49 .44 .40 .48 .34 .39 .30 .34 .40 .37 .22 .17 .34 .35 .20 .21 .16 .34

75030	2.652	125.827	2.5025	. 2500	.29359	.09011	.001	.08956	.14
75031	2.652	126.312	2.4925	.2500	.34503	.09038	.001	.08951	•11
75032	2.652	126.624	2.4861	.2500	.40071	.09065	.001	.08957	•19
75033	1.169	125.624	1.1138	.2500	.24683	.08693	.001	.08652	25
75034	1.169	125.081	1.1096	2500	.29421	.08699	.001	.08627	52
75035	1.169	126.492	1.1060	. 2500	.34569	.08733	.001	.08634	43
75036	1.169	125.080	1.1187	•2500	.20368	.08658	.002	•08653	24
		125.329	.4054	.2500					
75037	.424				.20388	.08516	.004	.08494	52
75038	.424	125.700	•4052	.2500	.24683	.08542	.004	•08496	50
75039	. 424	126.170	•4037	. 2500	.29431	.08563	.002	.08485	62
75040	•424	125.681	.4021	.2500	.34591	.08562	•002	.08450	-1.03
						Experimental		AdJ. Thermal Co	
						Thermal		Nom. Temperature	
D D.	0 - 2	¥ A	0 1 4		D				
Run Pt•	Pressure	Temperature	Oensity	pera	Power	Conductivity	STAT	100.0 K	expcalc.
	MPa	К	mo I/L	fraction	W/m	W/m+K		W/m+K	percent
77001	11.216	103.400	12.1546	. 2500	. 35296	.09744	.001	•09530	-1.04
77002	11.216	103.754	12.1092	•2500	.40301	•09769	.001	•09532	87
77003	11.216	103.938	12.0855	.2500	.45536	.09745	.001	•09497	-1.18
77004	11.215	104.462	12.0189	.2500	.51226	.09762	.001	.09481	-1.15
77005	9.842	103.118	10.8769	.2500	.30707	.09387	.002	.09192	86
77006	9.843	103.506	10.8326	.2500	.35325	.09389	.002	•09169	97
77007	9.843	103.845	10.7936	.2500	.40289	.09387	.002	•09146	-1.11
77008	9.843	104.174	10.7558	•2500	45608	.09406	.001		-1.01
	8.449		9.4674	•2500				•09144	
77009 77010	8.450	103.237 103.577	9.4332	• 2500	.30742 .35375	.09030 .09014	.002	.08827 .08789	76 -1.09
77010	8.451	104.049	9.3859	.2500	.40387				90
77011	8.452	102.860	9.5095	• 2500		.09048	.001	• 08794	97
					.26446	.08999		•08819	
77013	6.896	103.170	7.8434	• 2500	.26510	.08642	•002	.08441	51 - 70
77014 77015	6.897 6.897	103.371	7.8266 7.7936	.2500 .2500	.30779	.08627	.002	.08413	79 87
		103.763			.35426	.08637	.001	•08399	
77016	6.897	104.141	7.7622	•2500	.40421	.08651	•001	•08389	90
77017	5.557	102.997	6.3946	.2500	.22585	.08278	•002	.08086	64
77018	5.557	103.102	6.3873	.2500	.26521	.08271	.002	.08072	79
77019	5.557	103.523	6.3586	.2500	.30835	.08276	•001	•08050	99
77020	5.557	103.939	6.3300	. 2500	.35510	• 08294	.001	.08041	-1.01
77021	4.111	103.051	4.7657	.2500	.22604	.07930	•001	.07732	51
77022	4.111	103.299	4.7530	• 2500	. 26561	.07913	.001	.07698	90
77023	4.112	103.779	4.7291	•2500	.30909	.07944	.001	•07698	84
77024	4.112	104.134	4.7117	.2500	.35575	.07945	.001	•07676	-1.08
77025	2.775	103.220	3.2258	.2500	.22648	•07598	.002	.07386	78
77026	2.775	103.567	3.2145	. 2500	.26642	.07618	.001	.07383	78
77027	2.775	104.008	3.1998	.2500	•30984	.07637	.001	.07374	88
77028	2.775	104.494	3.1838	.2500	•35685	.07662	.001	.07367	93
77029	1.287	103.001	1.5029	. 2500	.19011	.07234	.002	.07035	91
77030	1.286	103.440	1.4959	•2500	.22696	•07264	.002	.07036	88
77031	1.286	103.904	1.4889	.2500	.26708	•07278	.001	.07019	-1.10
77032	1.286	104.355	1.4822	•2500	•31079	•07309	.001	•07020	-1.06
77033	• 5 5 6	103.129	.6490	• 2500	.19037	.07083	.005	.06875	87
77034	•556	103.520	•6465	•2500	.22712	.07105	.004	.06871	93
77035	•556	103.833	.6441	.2500	.26702	•07133	.004	.06878	81
77036	•556	104.556	•6396	.2500	.31138	.07187	.004	.06884	71

Table 2. The Thermal Conductivity of Hydrogen, Para and Para-rich Compositions

						Experimental	LbA	. Thermal Co	nductivity
						Thermai	Nom.	Temperature	deviation
Run Pt.	Pressure	Temperature		para	Power	Conductivity	STAT	100.0 K	expcaic.
	MPa	К	mol/L	fraction	W/m	W/m.K		W/m.K	percent
59001	11.521	98.763	13.0789	. 9979	.33528	.10771	.002	.10891	-1.97
59002	11.522	99.045	13.0380	9979	.38252	.10881	.001	.10974	-1.10
59003	11.522	99.708	12.9430	.9979	.48664	.10911	.001	.10939	-1.16
59004	11.522	99.976	12.9051	.9979	.54353	.10904	•001	.10906	-1.36
59005	10.078	98.887	11.6415	.9979	•33588	.10420	•001	.10528	-1.53
59006	10.078	99.200	11.5001	•9979	.38317	.10487	.001 .001	.10554 .10556	-1.07 -1.03
59007 59008	10.079	99.544 99.932	11.5557	•99 7 9	.43353 .48756	.10512 .10481	•002	.10488	-1.56
59009	8.669	99.028	10.1606	.9979	.33629	.10073	.002	.10167	-1.14
59010	A.670	99.327	10.1264	9979	.38344	.10080	.001	.10145	-1.27
59011	8.671	99.700	10.0839	.9979	.43410	.10109	.001	.10138	-1.23
59012	8.571	99.925	10.0584	. 9979	.48757	.10142	.001	.10149	-1.05
59013	7.144	99.899	8.5086	.9979	.29290	.09661	•001	.09768	89
59014	7.145	99.113	8.4882	.9979	.33666	•09646	.001	.09732	-1.21
59015	7.145 7.146	99.514 99.944	8.4494	•9979 •9979	.38430	.09685 .09721	.001 .002	.09732 .09726	-1.11 -1.07
59016 59017	7.140 5.790	98.949	6.9620	9979	.29308	.09264	.002	.09367	-1.18
59018	5.790	99.303	6.9340	9979	.33737	.09319	.001	.09387	89
59019	5.790	99.620	6.9092	.9979	.38469	.09338	.001	.09375	96
59020	5.790	100.007	6.8787	.9979	.43561	.09368	•001	.09367	97
59021	4.370	98.779	5.3046	.9979	.25255	.08903	•001	.09024	80
59022	4.370	99.059	5.2881	•9979	.29335	.08928	•001	.09021	79
59023	4.370	99.472	5.2639	. 9979	.33788	.08970	.001	.09022	72
59024 59025	4.370 2.958	99.801 98.931	5.2443 3.5998	•99 79 •9979	.38540 .25286	.08981 .08563	.001 .001	.09001 .08670	91 67
59026	2.958	99.251	3.5875	.9979	.29385	.08577	.001	.08652	85
59027	2.958	99.643	3.5724	9979	.33831	.08630	.001	•08666	65
59028	2.958	99.988	3.5589	.9979	.38620	.08664	.001	.08665	62
59029	1.442	98.790	1.7595	.9979	.21531	.08165	.001	.08287	82
59030	1.442	99.167	1.7524	• 9979	.25337	.08211	•001	.08295	72
59031	1.442	99.586	1.7447	.9979	.29475	.08251	.001	.08293	73
59032	1.442	100.018	1.7367	.9979	.33948	.08282	.001	.08280	86
						Experimental	LbA	. Thermal Co	nductivity
						Experimental Thermal		. Thermai Co Temperature	
Run Pt.	Pressure	Temperature	Density	para	Power	Thermal Conductivity		Temperature 125.0 K	deviation expcalc.
Run Pt.	Pressure MPa	Temperature K	Density mol/L	para fraction	Power W/m	Thermal	Nom.	Temperature	deviation
	мра	K	mol/L	fraction	W/m	Thermal Conductivity W/m.K	Nom.	Temperature 125.0 K W/m.K	deviation expcalc. percent
58001	MPa 11.634	123.793	mol/L 10.3559	fraction •9979	W/m •39324	Thermal Conductivity W/m.K	Nom.	Temperature 125.0 K W/m.K	deviation expcalc. percent
	мра	K	mol/L	fraction	W/m	Thermal Conductivity W/m.K	Nom.	Temperature 125.0 K W/m.K	deviation expcalc. percent
58001 58002	MPa 11.634 11.634	123.793 124.037	mol/L 10.3559 10.3347	•9979 •9979	W/m .39324 .45195	Thermal Conductivity W/m.K •12715 •12706	Nom. STAT	Temperature 125.0 K W/m.K .12833 .12800	deviation expcalc. percent 55 76
58001 58002 58003 58004 58005	MPa 11.634 11.634 11.634 11.634 10.210	123.793 124.037 124.354 124.745 123.830	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218	.9979 .9979 .9979 .9979 .9979	.39324 .45195 .51485 .58187 .39347	Thermal Conductivity W/m.K •12715 •12706 •12743 •12807 •12453	Nom. STAT .001 .001 .002 .001 .002	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567	deviation expcalc. percent 55 76 65 38 27
58001 58002 58003 58004 58005 58006	MPa 11.634 11.634 11.634 11.634 10.210	123.793 124.037 124.354 124.745 123.830 124.192	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939	.9979 .9979 .9979 .9979 .9979 .9979	w/m .39324 .45195 .51485 .58187 .39347 .45226	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470	.001 .001 .002 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549	deviation expcalc. percent 55 76 65 38 27 36
58001 58002 58003 58004 58005 58006 58007	MPa 11.634 11.634 11.634 10.210 10.210	123.793 124.037 124.354 124.745 123.830 124.192 124.479	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1719	.9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470 .12484	.001 .001 .002 .001 .002	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535	deviation expcalc. percent 55 76 65 38 27 36 42
58001 58002 58003 58004 58005 58006 58007 58008	MPa 11.634 11.634 11.634 10.210 10.210 10.210 10.211	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.902	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1719 9.1395	9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267	Thermal Conductivity W/m.K •12715 •12706 •12743 •12807 •12453 •12470 •12484 •12522	.001 .001 .002 .001 .002 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12547 .12535 .12532	deviation expcalc. percent 55 76 65 38 27 36 42 38
58001 58002 58003 58004 58005 58006 58007 58008 58009	MPa 11.634 11.634 11.634 10.210 10.210 10.210 10.211 8.722	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.902 123.945	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1719 9.1395 7.9851	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .39378	Thermal Conductivity W/m.K •12715 •12706 •12743 •12807 •12453 •12470 •12484 •12522 •12161	.001 .001 .002 .001 .002 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12532 .12532	deviation expcalc. percent 55 76 65 38 27 36 42 38 20
58001 58002 58003 58004 58005 58006 58007 58008	MPa 11.634 11.634 11.634 10.210 10.210 10.210 10.211	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.902	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1719 9.1395	9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267	Thermal Conductivity W/m.K •12715 •12706 •12743 •12807 •12453 •12470 •12484 •12522	.001 .001 .002 .001 .002 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12547 .12535 .12532	deviation expcalc. percent 55 76 65 38 27 36 42 38
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010	MPa 11.634 11.634 11.634 10.210 10.210 10.210 10.211 8.722 8.722	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.4902 123.945 124.341	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1719 7.9851 7.9851	fraction	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .39378	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12181	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12549 .12535 .12263 .12263	deviation expcalc. percent 55 76 65 38 27 36 42 38 20 30
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010 58011	MPa 11.634 11.634 11.634 10.210 10.210 10.210 10.211 8.722 8.722 8.722 8.722	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.902 123.945 124.341 124.597 125.018	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1719 9.1395 7.9851 7.9584 7.9411	fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .51485 .39347 .45226 .51511 .58267 .39378 .45262 .51555	Thermal Conductivity W/m.X .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12161	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12567 .12567 .12549 .12535 .12535 .12535 .12245 .12245	deviation exp-calc. percent 55 76 65 38 27 36 42 38 20 30 57
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010 58011 58012 58013 58014	MPa 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 8.722 7.186 7.187	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.902 123.945 124.341 124.597 125.018 124.385	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1739 9.1719 9.1719 7.9851 7.9584 7.9411 7.9131 6.6660 6.6456	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .39378 .45262 .51555 .58360 .45292	Thermal Conductivity W/m.K 12715 12706 12743 12807 12453 12470 12484 12522 12161 12181 12168 12246 11845 11892	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12532 .12263 .12245 .12207 .12244 .11940 .11952	deviation expcalc. percent 5576653827364238203057212713
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010 58011 58012 58013 58014 58015	MPa 11.634 11.634 11.634 10.210 10.210 10.210 10.211 8.722 8.722 8.722 8.722 7.186 7.187	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.902 123.945 124.597 125.018 124.597 124.385 124.385	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1719 9.1395 7.9851 7.9584 7.9411 7.9131 6.6660 6.6456 6.6247	fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39324 .51551 .58267 .39378 .45262 .51555 .58305 .39400 .45292 .51608	Thermal Conductivity W/m. K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12168 .12246 .11845 .11845 .11845 .11892 .11901	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12535 .12263 .12263 .12245 .12207 .12244 .11940 .11952 .11925	deviation expcalc. percent 557665382736423820305721271332
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010 58011 58012 58013 58014 58015 58016	MPa 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 7.186 7.187 7.187	123.793 124.037 124.354 124.745 123.830 124.4192 124.479 124.902 123.945 124.341 124.597 125.018 124.021 124.385 124.754	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1719 9.1395 7.9851 7.99584 7.9411 7.9131 6.6660 6.6456 6.6456 6.66247 6.6005	fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .39378 .45262 .558305 .39400 .45292 .51608 .52389	Thermal Conductivity W/m. K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12161 .12168 .12246 .11845 .11892 .11901 .11968	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12535 .12245 .12245 .12245 .12245 .12245 .1225 .12549	deviation expcalc. percent 55766538273642382030572127133206
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010 58011 58012 58013 58014 58015	MPa 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 7.186 7.187 7.187 5.440	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.479 124.902 123.945 124.341 124.597 125.018 124.021 124.385 124.754	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1719 9.1395 7.9851 7.9584 7.9411 7.9131 6.6660 6.6456 6.6247 6.6005 5.1117	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .39378 .45262 .51555 .39400 .45292 .51608 .58389 .39443	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12181 .12168 .12246 .11845 .11892 .11901 .11968 .11549	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12532 .12263 .12245 .12207 .12244 .11940 .11952 .11950 .11632	deviation expcalc. percent 55766538273642382030572127133206 .09
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010 58011 58012 58013 58014 58015 58016 58017	MPa 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 7.186 7.187 7.187	123.793 124.037 124.354 124.745 123.830 124.4192 124.479 124.902 123.945 124.341 124.597 125.018 124.021 124.385 124.754	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1719 9.1395 7.9851 7.99584 7.9411 7.9131 6.6660 6.6456 6.6456 6.66247 6.6005	fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .39378 .45262 .558305 .39400 .45292 .51608 .52389	Thermal Conductivity W/m. K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12161 .12168 .12246 .11845 .11892 .11901 .11968	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12532 .12263 .12245 .12207 .12244 .11940 .11952 .11950 .11632 .11646	deviation expcaic. percent 55766538273642382030572127133206 .09 .18
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010 58011 58012 58013 58014 58015 58016 58017 58018 58019 58020	MPa 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 7.186 7.187 7.187 7.187 5.440 5.440 5.440	123.793 124.037 124.354 124.745 123.830 124.479 124.902 123.945 124.341 124.597 125.018 124.021 124.385 124.754 125.185 124.143 123.774 124.594	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1719 9.1395 7.9851 7.99584 7.9411 7.9131 6.6660 6.6456 6.6247 6.6005 5.1117 5.1279 5.0960 5.0789	fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .39378 .45262 .51555 .58305 .39400 .45292 .56389 .39443 .339463 .56389	Thermal Conductivity W/m. K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12168 .12246 .11845 .11892 .11901 .11968 .11547 .11527 .11602 .11580	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12535 .12245 .12207 .12244 .11940 .11952 .11950 .11632 .11646 .11650 .11590	deviation expcalc. percent 5576653827364238205721271327133206 .09 .18 .2821
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010 58011 58012 58013 58014 58015 58016 58017 58018 58019 58020 58021	MPa 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 7.186 7.187 7.187 7.187 5.440 5.440 5.440 6.223	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.902 123.945 124.395 124.385 124.385 124.385 124.385 124.143 125.185 124.143 123.774 124.504 124.509 124.899 123.851	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1719 9.1395 7.9851 7.9851 7.9411 7.9131 6.6660 6.6456 6.6247 6.6005 5.1117 5.1279 5.0960 4.0123	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .493267 .45226 .51531 .58267 .39378 .45262 .51555 .39400 .45292 .516389 .39443 .33963 .451358 .33983	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12161 .12168 .12246 .11892 .11901 .11968 .11549 .11527 .11602 .11580 .11221	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12532 .12263 .12245 .12207 .12244 .11940 .11952 .11950 .11632 .11646 .11650 .11590 .11332	deviation expcalc. percent 55766538273642382030572127133206 .09 .18 .282147
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010 58011 58012 58013 58014 58016 58017 58018 58019 58019 58019	MPa 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 8.722 7.186 7.187 7.187 7.187 7.187 5.440 5.440 5.440 5.440 4.223 4.223	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.679 124.902 123.945 124.341 124.597 125.018 124.021 124.385 124.754 125.185 124.754 125.185 124.754 123.774 124.504 124.899 123.851 124.288	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1719 9.1395 7.9851 7.9584 7.9411 6.6660 6.6456 6.6247 6.6005 5.1117 5.1279 5.0960 4.0123 3.9974	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .39378 .45262 .51555 .39400 .45292 .51608 .5294 .33963 .45335 .51658 .39473	Thermal Conductivity W/m.K 12715 12706 12743 12807 12453 12470 12484 12522 12161 12181 12168 12246 11845 11892 11901 11968 11549 11527 11602 11580	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12263 .12245 .12207 .12244 .11940 .11952 .11950 .11632 .11646 .11650 .11590 .11332 .11409	deviation expcalc. percent 55766538273642382030572127133206 .09 .18 .282147 .23
58001 58002 58003 58004 58005 58006 58007 58009 58010 58011 58012 58014 58015 58016 58017 58017 58018 58019 58020 58021 58022 58023	MPa 11.634 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 8.722 7.187 7.187 7.187 7.187 5.440 5.440 5.440 5.440 5.440 4.223 4.223	123.793 124.037 124.354 124.745 123.830 124.479 124.902 123.945 124.341 124.597 125.018 124.597 125.018 124.597 125.018 124.597 125.018 124.754 125.185 124.754 125.185 124.754 125.185	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1719 9.1395 7.9584 7.9411 7.9131 6.6660 6.6456 6.6247 6.6005 5.1117 5.1279 5.0960 5.0789 4.0123 3.9974 3.9831	fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .49226 .51511 .58267 .49262 .51555 .58305 .49202 .51608 .52389 .39403 .45335 .51658 .39473 .45383	Thermal Conductivity W/m.K 12715 12706 12743 12807 12453 12470 12484 12522 12161 12181 12168 12246 11845 11892 11901 11968 11549 11527 11602 11580 11221 11340 11369	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12532 .12263 .12245 .12207 .12244 .11940 .11952 .11940 .11952 .11950 .11632 .11646 .11650 .11590 .11332 .11409 .11397	deviation expcalc. percent 55766538273642382030572127133206 .09 .18 .282147 .23 .15
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010 58011 58012 58013 58014 58015 58016 58017 58018 58019 58020 58021 58023 58024	MPa 11.634 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 7.186 7.187 7.187 7.187 7.187 5.440 5.440 5.440 4.223 4.223 4.223	123.793 124.037 124.354 124.745 123.830 124.479 124.902 123.945 124.341 124.597 125.018 124.021 124.385 124.754 125.185 124.143 123.774 124.899 123.851 124.899 123.851	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1719 9.1395 7.9851 7.99584 7.9411 7.9131 6.6660 6.6456 6.6247 6.6005 5.1117 5.1279 5.0960 5.0789 4.0123 3.9974 3.9881 3.9683	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .39378 .45262 .51555 .58305 .39400 .45292 .51608 .52389 .39443 .33963 .51658 .33983 .51658	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12168 .12246 .11845 .11845 .11892 .11901 .11968 .11527 .11602 .11580 .11221 .11340 .11369 .11372	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12535 .12263 .12245 .12207 .12244 .11940 .11952 .11955 .11950 .11632 .11646 .11650 .11590 .11332 .11409 .11397 .11357	deviation expcalc. percent 55766538273642382030572127133206 .09 .18 .282147 .23 .1517
58001 58002 58003 58004 58005 58006 58007 58009 58010 58011 58012 58014 58015 58016 58017 58017 58018 58019 58020 58021 58022 58023	MPa 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 7.186 7.187 7.187 7.187 5.440 5.440 5.440 4.223 4.223 4.223 4.223 2.848	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.902 123.945 124.341 124.597 125.018 124.597 125.185 124.754 125.185 124.143 123.774 125.185 124.288 124.754 124.999 123.851 124.288 124.712 125.153 124.288	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1719 9.1395 7.9851 7.9411 7.9131 6.6660 6.6456 6.6247 6.6005 5.1117 5.1279 5.0960 9.1789 4.0123 3.9974 3.9831 3.9683 2.7243	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51551 .58267 .39378 .45265 .516369 .39400 .45292 .516389 .39443 .33963 .451358 .39473 .45388	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12181 .12168 .12246 .11845 .11892 .11901 .11968 .11549 .11527 .11602 .11580 .11221 .11340 .11369 .11372 .11025	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12532 .12263 .12245 .12207 .12244 .11940 .11952 .11950 .11632 .11646 .11650 .11590 .11332 .11409 .11357 .11117	deviation expcalc. percent 55766538273642382030572127133206 .09 .18 .282147 .23 .151704
58001 58002 58003 58004 58005 58006 58007 58008 58010 58011 58012 58014 58015 58016 58017 58017 58018 58019 58020 58021 58023 58024 58025	MPa 11.634 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 8.722 8.722 7.186 7.187 7.187 7.187 7.187 5.440	123.793 124.037 124.354 124.745 123.830 124.479 124.902 123.945 124.341 124.597 125.018 124.021 124.385 124.754 125.185 124.143 123.774 124.899 123.851 124.899 123.851	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1719 9.1395 7.9851 7.99584 7.9411 7.9131 6.6660 6.6456 6.6247 6.6005 5.1117 5.1279 5.0960 5.0789 4.0123 3.9974 3.9881 3.9683	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .39378 .45262 .51555 .58305 .39400 .45292 .51608 .52389 .39443 .33963 .51658 .33983 .51658	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12168 .12246 .11845 .11845 .11892 .11901 .11968 .11527 .11602 .11580 .11221 .11340 .11369 .11372	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12535 .12263 .12245 .12207 .12244 .11940 .11952 .11955 .11950 .11632 .11646 .11650 .11590 .11332 .11409 .11397 .11357	deviation expcalc. percent 55766538273642382030572127133206 .09 .18 .282147 .23 .1517
58001 58002 58003 58004 58005 58006 58007 58008 58009 58010 58011 58012 58013 58014 58016 58017 58016 58017 58018 58020 58021 58023 58024 58026 58027 58028	MPa 11.634 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 7.186 7.187 7.187 7.187 7.187 5.440 5.440 5.440 5.440 4.223 4.223 4.223 4.223 2.848 2.848 2.848	123.793 124.037 124.354 124.745 123.830 124.479 124.479 124.902 123.945 124.341 124.597 125.018 124.021 124.855 124.754 125.185 124.754 125.185 124.754 125.185 124.754 125.185 124.754 125.185	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1719 9.1395 7.9851 7.9984 7.9411 7.9131 6.6660 6.6456 6.6247 6.6005 5.1117 5.1279 5.0960 5.0789 4.0123 3.9974 3.9881 3.9683 2.7243 2.77141 2.7055 2.6968	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .39378 .45262 .51555 .39400 .45292 .51658 .33983 .51658 .33983 .51658 .33983 .51727 .34006 .39542 .5177	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12181 .12168 .12246 .11845 .11845 .11892 .11901 .11968 .11549 .11527 .11602 .11580 .11221 .11340 .11369 .11372 .11025 .11085	.001 .001 .002 .001 .002 .001 .001 .001	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12532 .12263 .12245 .12207 .12244 .11940 .11952 .11952 .11950 .11632 .11646 .11650 .11590 .11332 .11409 .11397 .11357 .11117 .11134	deviation expcalc. percent 55766538273642382030572127133206 .09 .18 .282147 .23 .151704 .13
58002 58003 58004 58005 58006 58007 58008 58009 58010 58012 58013 58014 58015 58017 58016 58017 58016 58017 58020 58021 58022 58022 58022 58022 58022 58022 58029	MPa 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 7.186 7.187 7.187 7.187 7.187 5.440 5.440 5.440 5.440 223 4.223 4.223 4.223 4.223 4.223 4.223 4.223 4.223	123.793 124.037 124.354 124.745 123.830 124.479 124.902 123.945 124.341 124.597 125.018 124.597 125.018 124.754 125.185 124.754 125.185 124.754 123.774 124.899 123.851 124.288 124.704 124.899 123.851 124.288 124.704 124.899 123.851 124.288 124.704 124.899 123.851 124.288 124.7050 124.495 124.495 124.495 124.495 124.495	mol/L 10.3559 10.3347 10.3077 10.2743 9.1218 9.1939 9.1719 9.1395 7.9851 7.9411 7.9131 6.6660 6.6456 6.6247 6.6005 5.1117 5.1279 5.0960 5.0789 4.0123 3.9974 3.9838 2.7243 2.7141 2.7055 2.6968 1.4763	fraction .977 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .45262 .51535 .39402 .516389 .39443 .33963 .451358 .39473 .451383 .51658 .39473 .451383 .451383 .51658 .39473 .451383	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12181 .12168 .12246 .11845 .11892 .11901 .11968 .11549 .11527 .11602 .11580 .11221 .11340 .11369 .11372 .11025 .11085 .11113	Nom. STAT .001 .001 .002 .001 .001 .001 .001 .00	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12532 .12263 .12245 .12207 .12244 .11940 .11952 .11950 .11632 .11646 .11650 .11590 .11332 .11409 .11357 .1117 .11134 .11125 .1110 .10878	deviation expcalc. percent 55766538273642382030572127133206 .09 .18 .282147 .23 .151704 .13 .0605 .01
58002 58003 58004 58004 58006 58007 58008 58009 58010 58012 58013 58014 58015 58016 58017 58016 58017 58016 58020 58021 58022 58023 58024 58025 58027 58026 58029 58030	MPa 11.634 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 7.186 7.187 7.187 7.187 7.187 5.440 5.440 5.440 5.440 5.440 5.440 2.848 2.848 2.848 2.848 2.848	123.793 124.037 124.354 124.745 123.830 124.192 124.479 124.902 123.945 124.395 124.385 124.597 125.018 124.597 125.105 124.385 124.754 125.165 124.143 123.774 124.599 123.851 124.288 124.712 125.268	mol/L 10.3559 10.3347 10.3077 10.2743 9.2218 9.1939 9.1395 7.9851 7.9584 7.9411 7.9131 6.6660 6.6456 6.6247 6.6005 5.1117 5.1279 5.0960 4.0123 3.9974 3.9831 3.9683 2.7243 2.7141 2.7055 2.6968 1.4763 1.4708	fraction .977 .9979	W/m 39324 45195 51485 58187 39347 45226 51551 58267 39378 45262 51535 39400 45292 516389 33943 33963 45335 51707 39514 45422 51779 28406	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12181 .12168 .12246 .11845 .11892 .11901 .11968 .11549 .11527 .11602 .11580 .11221 .11340 .11369 .11372 .11025 .11085 .1113	Nom. STAT .001 .001 .002 .001 .001 .001 .001 .00	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12263 .12245 .12245 .12247 .11940 .11952 .11950 .11950 .11632 .11646 .11650 .11590 .11332 .11409 .1137 .1117 .11134 .11125 .11110 .10878 .10848	deviation expcaic. percent 55766538273642382030572127133206 .09 .18 .282147 .23 .151704 .13 .0605 .0125
58002 58003 58004 58005 58006 58007 58008 58009 58010 58012 58013 58014 58015 58017 58016 58017 58016 58017 58020 58021 58022 58022 58022 58022 58022 58022 58029	MPa 11.634 11.634 11.634 10.210 10.210 10.211 8.722 8.722 8.722 7.186 7.187 7.187 7.187 7.187 5.440 5.440 5.440 5.440 223 4.223 4.223 4.223 4.223 4.223 4.223 4.223 4.223	123.793 124.037 124.354 124.745 123.830 124.479 124.902 123.945 124.341 124.597 125.018 124.597 125.018 124.754 125.185 124.754 125.185 124.754 123.774 124.899 123.851 124.288 124.704 124.899 123.851 124.288 124.704 124.899 123.851 124.288 124.704 124.899 123.851 124.288 124.7050 124.495 124.495 124.495 124.495 124.495	mol/L 10.3559 10.3347 10.3077 10.2743 9.1218 9.1939 9.1719 9.1395 7.9851 7.9411 7.9131 6.6660 6.6456 6.6247 6.6005 5.1117 5.1279 5.0960 5.0789 4.0123 3.9974 3.9838 2.7243 2.7141 2.7055 2.6968 1.4763	fraction .977 .9979	W/m .39324 .45195 .51485 .58187 .39347 .45226 .51511 .58267 .45262 .51535 .39402 .516389 .39443 .33963 .451358 .39473 .451383 .51658 .39473 .451383 .451383 .51658 .39473 .451383	Thermal Conductivity W/m.K .12715 .12706 .12743 .12807 .12453 .12470 .12484 .12522 .12161 .12181 .12168 .12246 .11845 .11892 .11901 .11968 .11549 .11527 .11602 .11580 .11221 .11340 .11369 .11372 .11025 .11085 .11113	Nom. STAT .001 .001 .002 .001 .001 .001 .001 .00	Temperature 125.0 K W/m.K .12833 .12800 .12806 .12832 .12567 .12549 .12535 .12532 .12263 .12245 .12207 .12244 .11940 .11952 .11950 .11632 .11646 .11650 .11590 .11332 .11409 .11357 .1117 .11134 .11125 .1110 .10878	deviation expcalc. percent 55766538273642382030572127133206 .09 .18 .282147 .23 .151704 .13 .0605 .01

						Experimental		Adj. Thermal Co	aduat Lultu
						Thermal		Nom. Temperature	
Run Pt.	Pressure	Temperature	Density	para	Power	Conductivity	STAT	175.0 K	expcalc.
	мра	К	mol/L	fraction	₩/m	W/m.K		W/m.K	percent
56001	11.850	173.041	7.5158	.9979	.43338	.15851	•002	•15960	07
56002	11.849	173.458	7.4979	.9979	.50861	.15946	.001	•16032	•41
56003 56004	11.849 11.849	173.724 174.101	7.4866 7.4705	•9979 •9979	•59008 •67747	•15899 •15932	.001	•15970 •15982	•04 •14
56005	10.398	173.114	6.6726	9979	.43343	.15710	.001	.15815	•32
56006	10.398	173.480	6.6587	.9979	.50841	.15671	.002	.15755	03
56007	10.398	173.811	6.6462	.9979	.58984	•15674	•001	• 15740	11
56008 56009	10.398 8.859	174.133 173.022	6.6341 5.7603	.9979 .9979	.67724 .43346	•15696 •15573	.001	•15744 •15683	07 .85
56010	8.859	173.422	5.7471	.9979	•50857	.15499	.001	.15586	•26
56011	8.859	173.858	5.7327	.9979	.59013	.15484	.001	. 15547	•03
56012 56013	8.859 7.333	174.262 173.176	5.7195 4.8224	.9979 .9979	.67753 .43379	.15552 .15228	•002	•15593 •15329	•35 ••05
56014	7.333	173.492	4.8136	.9979	.50896	.15279	.001	•15362	.19
56015	7.333	173.910	4.8021	.9979	.59045	•15303	.001	•15363	•21
56016 56017	7.333 5.971	174.435 173.301	4.7876	.9979 .9979	.67811	.15329 .15055	.001 .002	•15360 •15149	•21 •00
56018	5.971	173.680	3.9572	.9979	.50908	.15076	.002	15149	•01
56019	5.971	173.995	3.9501	.9979	.59048	.15146	.001	.15201	.37
56020	5.971	174.450	3.9397	.9979	.67817	.15119	.001	•15149	•04
56021 56022	4.560 4.560	173.330 173.700	3.0611 3.0546	•9979 •9979	•43392 •50922	•14880 •14907	.002	•14972 •14979	•10 •15
56023	4.560	174.179	3.0461	.9979	.59065	.14937	.001	-14982	.19
56024	4.560	174.606	3.0386	.9979	.67831	•14965	.001	.14987	•23
56025	3 200	173.446 174.201	2.1683	.9979	.43411	.14681	•002	•14766	06
56027 56028	3.199 3.199	174.830	2.1584	.9979 .9979	.59149 .67962	•14742 •14759	.001	•14786 •14768	•08 -•02
56029	1.781	172.760	1.2241	.9979	.30223	.14542	.005	.14665	•52
56030	1.781	173.101	1.2217	• 9979	.36540	•14462	•005	•14566	15
56031 56032	1.781 1.780	173.919 174.400	1.2159	.9979	.51039 .59203	•14584 •14597	.003	•14643 •14630	•38 •30
56033	1.059	172.754	.7316	9979	.30219	.14403	.012	•14526	•23
56034	1.059	173.127	.7300	.9979	.36531	.14558	.008	•14661	1.14
56035 56036	1.059 1.059	173.424 173.957	•7288 •7266	.9979 .9979	.43465 .51015	•14401 •14571	•006	•14488 •14628	04 .93
20030	10034	1136771	.1200	* * * * * * *	. , 1017	*14211	*000	.14020	• 7 3
						Experimental		Adj. Thermal Co	
Run Pt.	Pressure	Temperature	Density	DAFA	Power	Thermal	TATS	Nom. Temperature	deviation
Run Pt.	Pressure MPa	Temperature K	Density mol/L	para fraction	Power W/m		STAT		
	MPa	К	mol/L	fraction	W/m	Thermal Conductivity W/m.K		Nom. Temperature 200.0 K W/m.K	deviation expnaic. percent
55001	MPa 12.020	K 198.874	mol/L 6.6506	fraction .9979	W/# .50724	Thermal Conductivity W/m.K	.001	Nom. Temperature 200.0 K W/m.K .16909	deviation expnaic. percent
	MPa	К	mol/L	fraction	W/m	Thermal Conductivity W/m.K		Nom. Temperature 200.0 K W/m.K	deviation expnaic. percent
55001 55002 55003 55004	MPa 12.020 12.020 12.020 12.020	198.874 199.265 199.646 200.108	mol/L 6.6506 6.6381 6.6258 6.6110	.9979 .9979 .9979 .9979	.50724 .59505 .68993 .79196	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907	.001 .003 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903	deviation expnaic. percent 36 66 18 34
55001 55002 55003 55004 55005	MPa 12.020 12.020 12.020 12.020 10.561	198.874 199.265 199.646 200.108	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080	.9979 .9979 .9979 .9979 .9979	.50724 .59505 .68993 .79196	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742	.001 .003 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791	deviation expnaic- percent 36 66 18 34 00
55001 55002 55003 55004 55005 55006	MPa 12.020 12.020 12.020 12.020 10.561	K 198.874 199.265 199.646 200.108 198.906 199.358	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949	.9979 .9979 .9979 .9979 .9979	.50724 .59505 .68993 .79196 .50735	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664	.001 .003 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791 .16693	deviation expnaic. percent 36 66 18 34
55001 55002 55003 55004 55005 55006 55007 55008	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719	fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726	.001 .003 .001 .001 .002 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791 .16693 .16724 .16719	deviation expnaic. percent 36 66 18 34 00 57 37 37
55001 55002 55003 55004 55005 55006 55007 55008 55009	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979	W/m .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518	.001 .003 .001 .001 .002 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791 .16693 .16724 .16719 .16565	deviation expnaic. percent 36 66 18 34 00 57 37 38 34
55001 55002 55003 55004 55005 55006 55007 55008 55009 55010	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147 9.147	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1586	fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .59512	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517	.001 .003 .001 .001 .002 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791 .16693 .16724 .16719 .16565 .16543	deviation expnaic. percent 36 66 18 34 00 57 37 38 34 45
55001 55002 55003 55004 55005 55006 55007 55008 55009 55010 55011 55012	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147 9.147 9.147	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.744 200.199	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .59512 .69011 .79226	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517 .16551	.001 .003 .001 .002 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559	deviation expnaic- percent 36 66 18 34 00 57 37 38 34 45 45 32 33
55001 55002 55003 55004 55005 55006 55007 55008 55009 55010 55011 55012 55013	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147 9.147 9.147 7.723	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.748 200.199	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1586 5.1391 4.4124	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .59512 .69011 .79226 .50734	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517 .16557 .16567	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16724 .16719 .16565 .16543 .16562 .16559 .16409	deviation expnaic. percent 36 66 18 34 00 57 37 38 34 45 32 32
55001 55002 55003 55004 55005 55006 55007 55008 55009 55010 55011 55012 55013	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147 9.147 9.147 7.723 7.723	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.744 200.199	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8749 5.8719 5.1706 5.1506 5.1506 5.1391 4.4124 4.4027	fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/E .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .59512 .69011 .79226 .50734 .59512	Thermal Conductivity W/m.K .16859 .16823 .16917 .16742 .16664 .16711 .16726 .16518 .16517 .16551 .16567	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16414	deviation expnaic. percent 36 66 18 34 00 57 37 38 34 45 32 32 33
55001 55002 55003 55004 55005 55006 55007 55008 55009 55010 55011 55012 55013 55014 55015 55016	MPa 12.020 12.020 12.020 12.020 10.561 10.561 9.147 9.147 9.147 7.723 7.723 7.723 7.723	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.744 200.199 198.964 199.409	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.4027 4.3934 4.3817	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .59512 .69011 .79226 .50734	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517 .16551 .16567 .16363 .16383 .16383	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394	deviation expnaic. percent 36 66 18 34 00 57 37 38 34 45 32 33 25 20 34
55001 55002 55003 55004 55005 55006 55007 55008 55009 55010 55011 55012 55013 55014 55015 55016 55017	MPa 12.020 12.020 12.020 12.020 10.561 10.561 9.147 9.147 9.147 7.723 7.723 7.723 7.723 6.403	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.4428 199.444 200.199 198.964 199.409 199.840 200.378	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.4027 4.3934 4.3817 3.7002	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .59512 .69011 .79226 .50734 .59512 .69030 .79237 .42668	Thermal Conductivity W/m.K .16859 .16823 .16917 .16742 .16664 .16711 .16726 .16518 .16517 .16557 .16567 .16363 .16388 .16388 .16388	.001 .003 .001 .002 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394 .16222	deviation expnaic. percent 36 66 18 34 00 57 38 34 45 32 33 25 20 34 30
55001 55002 55003 55004 55005 55006 55007 55010 55011 55012 55013 55014 55015 55016 55017 55018	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147 9.147 9.147 7.723 7.723 7.723 7.723 7.723 6.403 6.403	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.744 200.199 198.964 199.840 200.378 198.658 199.073	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.4027 4.3934 4.3817 3.77002 3.6926	fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/E .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .59512 .69011 .79226 .50734 .59512 .69030 .79237 .42668 .50729	Thermal Conductivity W/m.K .16859 .16823 .16917 .16742 .16664 .16711 .16726 .16518 .16517 .16551 .16567 .16363 .16388 .16388 .16409 .16162	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16414 .16390 .16414	deviation expnaic. percent 36 66 18 34 00 57 37 38 34 45 32 32 33 25 20 34 30
55001 55002 55003 55004 55005 55006 55007 55008 55009 55011 55012 55013 55014 55015 55016 55017 55018	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147 9.147 7.723 7.723 7.723 6.403 6.403 6.403	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.4428 199.444 200.199 198.964 199.409 199.840 200.378	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1506 5.1506 5.1391 4.4124 4.4027 4.3934 4.3817 3.7002 3.6926 3.6852 3.6746	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/E .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .69011 .79226 .50734 .69030 .79237 .42668 .50729 .59508 .68996	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517 .16551 .16567 .16363 .16388 .16383 .16409 .16162 .16195 .15232 .16217	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394 .16222 .16255 .16215	deviation expnaic-percent 366618340057373834453233252034304535352245
55001 55002 55003 55004 55005 55007 55008 55009 55010 55011 55012 55013 55014 55015 55016 55017 55018 55019 55019 55020 55021	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147 9.147 7.723 7.723 7.723 7.723 6.403 6.403 6.403 6.403 5.000	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.444 200.199 198.964 199.409 199.840 200.378 199.658 199.073 199.477 200.049	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.4027 4.3934 4.3934 4.3934 4.3934 4.602 3.6926 3.6926 3.6926 3.6746 2.9178	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .59512 .69011 .79226 .50734 .59512 .69030 .79237 .42668 .50729 .59596 .42668	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517 .16557 .16567 .16363 .16388 .16388 .16388 .16388 .16388 .16388 .16388	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394 .16222 .16236 .16255 .16215	deviation expnaic- percent 3666183400573834453233252034304535224557
55001 55002 55003 55004 55005 55006 55007 55010 55011 55012 55014 55015 55016 55017 55018 55019 55019 55020 55021	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147 9.147 9.147 7.723 7.723 7.723 7.723 7.723 6.403 6.403 6.403 6.403 6.403 6.000 5.000	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.744 200.199 198.964 199.840 200.378 198.658 199.073 199.477 200.649 198.772	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.4027 4.3934 4.3817 3.7002 3.6926 3.6852 3.6746 2.9117	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/E .50724 .59505 .68993 .79196 .59497 .69006 .79205 .59512 .69011 .79226 .50734 .59512 .69030 .79237 .42668 .50729 .59508 .68996 .42662 .50734	Thermal Conductivity W/m.K .16859 .16823 .16917 .16742 .16664 .16711 .16726 .16518 .16517 .16551 .16567 .16363 .16388 .16388 .16409 .16162 .16195 .15232 .16217 .15983 .16035	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16414 .16390 .16414 .16390 .16394 .16225 .16255 .16215 .16037 .16071	deviation expnaic. percent 36661834005737383445323325203435252035
55001 55002 55003 55004 55005 55007 55008 55009 55010 55011 55012 55013 55014 55015 55016 55017 55018 55019 55019 55020 55021	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147 9.147 7.723 7.723 7.723 7.723 6.403 6.403 6.403 6.403 5.000	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.444 200.199 198.964 199.409 199.840 200.378 199.658 199.073 199.477 200.049	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.4027 4.3934 4.3934 4.3934 4.3934 4.602 3.6926 3.6926 3.6926 3.6746 2.9178	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .59512 .69011 .79226 .50734 .59512 .69030 .79237 .42668 .50729 .59596 .42668	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517 .16557 .16567 .16363 .16388 .16388 .16388 .16388 .16388 .16388 .16388	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394 .16222 .16236 .16255 .16215	deviation expnaic- percent 3666183400573834453233252034304535224557
55001 55002 55003 55004 55005 55007 55008 55009 55010 55011 55012 55013 55014 55015 55016 55017 55016 55017 55019 55020 55021 55022 55023 55024 55025	MPa 12.020 12.020 12.020 12.020 10.561 10.561 9.147 9.147 7.723 7.723 7.723 7.723 6.403 6.403 6.403 5.000 5.000 5.000 5.000 3.533	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.744 200.199 198.964 199.409 199.840 200.378 198.658 199.073 199.477 200.049 198.772 199.194 199.597 200.071	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.4027 4.3934 4.4027 4.3934 4.5817 3.7002 3.6926 3.6852 3.6746 2.9178 2.9178 2.9178 2.9059 2.0834	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/E .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .59512 .69011 .79226 .50734 .59502 .69030 .79237 .42668 .50729 .59508 .42662 .50734 .59509 .42662	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517 .16557 .16567 .16363 .16388 .16388 .16388 .16388 .16388 .16409 .16162 .16195 .15232 .16217 .15983 .16035 .16035	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394 .16222 .16236 .16255 .16215 .16037 .16071 .16023 .16068 .15853	deviation expnaic- percent
55001 55002 55003 55004 55005 55006 55007 55010 55011 55012 55014 55015 55016 55017 55018 55019 55020 55021 55022 55023 55024 55025 55026	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 10.561 7.147 7.147 7.147 7.147 7.723	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.928 199.744 200.199 199.428 199.744 200.199 199.840 200.378 199.840 200.378 199.477 200.049 199.477 200.049 199.477 200.049 199.597 200.071	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.4027 4.3934 4.3817 3.7002 3.6926 3.6852 3.6746 2.917 2.9059 2.8990 2.0834 2.0794	fraction .977 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/E .50724 .59505 .68993 .79196 .59497 .69006 .79205 .59512 .69011 .79226 .50734 .59512 .69030 .79237 .42668 .50729 .59508 .68996 .42662 .50734 .59509 .69018 .59509	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16517 .165517 .165517 .16567 .16363 .16388 .16388 .16388 .16409 .16162 .16195 .15232 .16217 .15983 .16005 .160071 .15801	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16414 .16390 .16414 .16390 .16394 .16255 .16215 .16071 .16023 .16068 .15853 .15895	deviation expraic. percent 366618340057373834453233252034352245356639
55001 55002 55003 55004 55005 55006 55007 55010 55011 55012 55013 55014 55015 55016 55017 55018 55019 55020 55021 55022 55023 55024 55025 55026 55027	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147 9.147 9.147 7.723 7.723 7.723 7.723 7.723 6.403 6.403 6.403 6.403 6.403 6.533 3.533 3.533	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.744 200.199 198.964 199.409 199.840 200.378 198.658 199.073 199.477 200.049 198.772 199.194 199.597 200.071	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.9849 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.4027 4.3934 4.3817 3.7002 3.6926 3.6852 3.6746 2.9178 2.9059 2.88990 2.0834 2.0794 2.0794	fraction .977 .977 .977 .977 .977 .977 .977 .9	W/E .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .59512 .69011 .79226 .50734 .59512 .69030 .79237 .42668 .50729 .59508 .68996 .42662 .50734 .59509 .69018 .42631	Thermal Conductivity W/m.K .16859 .16823 .16917 .16742 .16664 .16711 .16726 .16518 .16517 .16551 .16567 .16363 .16388 .16388 .16388 .16409 .16162 .16195 .15232 .16217 .15983 .16035 .16035 .16035 .16035 .16071 .15860 .15896	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16414 .16390 .16414 .16390 .16394 .16222 .16255 .16215 .16037 .16071 .16023 .16068 .15853 .15895 .15910	deviation expraic. percent 3666183400573738453233252034352520352520352520352245352245352245352245352245
55001 55002 55003 55004 55005 55007 55008 55009 55010 55011 55012 55013 55014 55015 55016 55017 55016 55017 55020 55021 55022 55023 55024 55025 55026 55027 55028 55029	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 9.147 9.147 7.723 7.723 7.723 6.403 6.403 6.403 6.403 5.000 5.000 5.000 5.000 5.000 5.000 5.033 3.533 3.533 3.533	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.744 200.199 198.964 199.409 199.409 199.409 199.407 199.658 199.073 199.677 200.071 198.826 199.207 199.695 200.164 199.576	mol/L 6.6506 6.6381 6.6258 6.6110 5.0080 5.8949 5.8850 5.8719 5.1706 5.1506 5.1391 4.4124 4.4027 4.3934 4.3817 3.7002 3.6926 2.9178 2.9177 2.9059 2.0834 2.0794 2.0793 2.0693 1.3373	fraction .979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/E .50724 .59505 .68993 .79196 .50735 .59497 .69006 .79205 .50730 .59512 .69011 .79226 .50734 .59512 .69030 .79237 .42668 .50729 .59508 .68966 .42662 .50734 .59508 .68966 .42662 .50734 .59508 .68966 .42631 .50735 .59526	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517 .16557 .16567 .16363 .16388	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394 .16222 .16236 .16255 .16215 .16037 .16071 .16023 .1608 .15853 .15895 .15910 .15876	deviation expnaic- percent
55001 55002 55003 55004 55006 55007 55008 55010 55011 55012 55014 55015 55016 55017 55018 55019 55021 55021 55022 55023 55024 55025 55027 55029 55029	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 10.561 7.723 7.724 7.724 7.724 7.725 7.724 7.725 7.724 7.724 7.724 7.724 7.725 7.724 7.724 7.724 7.725 7.724 7.725 7.724 7.725 7.726	198.874 199.265 199.646 200.108 199.906 199.358 199.703 200.163 199.428 199.744 200.199 199.428 199.744 200.199 199.840 200.378 199.6477 200.049 199.477 200.049 199.477 200.049 199.597 200.071 198.826 199.207 199.695 200.169	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.4027 4.3934 4.3817 3.7002 3.6926 3.6852 3.6746 2.9117 2.9059 2.0834 2.0743 2.0693 1.3373 1.3373	fraction .977 .9979	W/E .50724 .59505 .68993 .79196 .59497 .69006 .79205 .59512 .69011 .79226 .59512 .69030 .79237 .42668 .50729 .59508 .68996 .426631 .50735 .59526 .69030 .35292 .42658	Thermal Conductivity W/m.K .16859 .16859 .16823 .16917 .16742 .16664 .16711 .16726 .16518 .16517 .16551 .16567 .16363 .16388 .16388 .16388 .16409 .16162 .16195 .15232 .16217 .15983 .16005 .16005 .16071 .15801 .15896 .15883 .15654 .15698	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394 .16222 .16236 .16255 .16215 .16071 .16023 .16068 .15853 .15895 .15910 .15876 .15717	deviation expraic. percent 3666183400573738344532332520343525224535643566392949495837
55001 55002 55003 55004 55005 55006 55007 55010 55011 55012 55013 55014 55015 55016 55017 55018 55019 55020 55021 55022 55023 55024 55025 55026 55027 55028 55029 55030 55030	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 10.561 7.147 9.147 9.147 7.723	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.744 200.199 198.964 199.409 199.840 200.378 199.658 199.073 199.477 200.049 198.752 199.207 199.597 200.071 198.856 199.207	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.9849 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.9817 3.7002 3.6926 3.6852 3.6746 2.9178 2.9059 2.90834 2.0794 2.0794 2.0794 2.0794 2.0793 1.3352 1.3352	fraction .977 .977 .977 .977 .977 .977 .977 .9	W/E .50724 .59505 .68993 .79196 .59497 .69006 .79205 .59512 .69011 .79226 .50734 .59512 .69030 .79237 .42668 .50729 .59508 .68996 .42662 .50734 .59509 .69018 .42631 .59526 .69030 .35292 .4268	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517 .16551 .16567 .16363 .16383 .16409 .16162 .16195 .15232 .16217 .15983 .16005 .16005 .160071 .15800 .15883 .15654	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16903 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394 .16222 .16236 .16255 .16215 .16037 .16071 .16023 .16068 .15853 .15853 .15876 .15717 .15749 .15685	deviation expraic. percent 3666183400573738344532332520343045352245573564356435643778
55001 55002 55003 55004 55006 55007 55009 55010 55011 55012 55013 55014 55015 55016 55017 55018 55019 55020 55021 55022 55023 55025 55026 55027 55029 55030 55031 55032 55033	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 10.561 7.147 7.147 7.147 7.723	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.428 199.428 199.744 200.199 198.964 199.409 199.860 200.378 198.658 199.073 199.677 200.071 198.856 199.207 199.597 200.071 198.826 199.207 199.695 200.164 198.576 198.576 198.576 198.576 198.576 198.576	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.1719 5.1706 5.1506 5.1506 5.1391 4.4124 4.4027 4.3934 4.4027 4.3934 2.0174 2.9059 2.8890 2.8890 2.0834 2.0794 2.0743 2.0693 1.3352 1.3250 1.3290 6.031	fraction .977 .9979	W/E .50724 .59505 .68993 .79196 .59497 .69006 .79205 .59512 .69011 .79226 .59512 .69030 .79237 .42668 .50729 .59508 .68996 .50734 .59508 .68996 .50734 .59508 .69018 .50735 .59526 .69030 .59552 .50734 .59522 .69030 .59552	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517 .16557 .16567 .16363 .16388 .15688	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394 .16222 .16236 .16255 .16215 .16037 .16071 .16023 .16068 .15853 .15895 .15910 .15876 .15717 .15749 .15685 .15748 .15649	deviation expnaic- percent
55001 55002 55003 55004 55006 55007 55008 55010 55011 55012 55014 55015 55016 55017 55018 55019 55021 55021 55022 55023 55024 55025 55026 55027 55029 55030 55031 55032 55033 55034	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 10.561 7.723	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.944 199.428 199.744 200.199 198.964 199.840 200.378 198.655 199.073 199.477 200.049 199.847 200.199 198.856 199.073 199.477 200.069 199.8576 198.850 199.258 199.258 199.258	mol/L 6.6506 6.6381 6.6258 6.6110 5.9949 5.8850 5.8719 5.1706 5.1586 5.1506 5.1391 4.4124 4.4027 4.3934 4.3817 3.7002 3.6926 3.6852 3.6746 2.9117 2.9059 2.0834 2.0174 2.0743 2.0693 1.3373 1.3352 1.3325 1.3290 .6031	fraction .977 .9979	W/E .50724 .59505 .68993 .79196 .59497 .69006 .79205 .59512 .69011 .79226 .59512 .69030 .79237 .42668 .50729 .59508 .68996 .426.31 .50735 .59526 .69030 .35268 .50734 .59533 .35273 .342645	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .165517 .16551 .16567 .16363 .16388 .16388 .16388 .16388 .16409 .16162 .16195 .15232 .16217 .15983 .16005 .16007 .15801 .15806 .15883 .15654 .15698 .15652 .15738	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394 .16222 .16236 .16255 .16215 .16071 .16023 .16068 .15853 .15895 .15910 .15876 .15717 .15749 .15685 .15748 .15649 .1584	deviation expraic. percent 366618340057373845323325203435252735643564356639294958377838383152
55001 55002 55003 55004 55006 55007 55009 55010 55011 55012 55013 55014 55015 55016 55017 55018 55019 55020 55021 55022 55023 55025 55026 55027 55029 55030 55031 55032 55033	MPa 12.020 12.020 12.020 12.020 10.561 10.561 10.561 10.561 7.147 7.147 7.147 7.723	198.874 199.265 199.646 200.108 198.906 199.358 199.703 200.163 198.954 199.428 199.428 199.428 199.744 200.199 198.964 199.409 199.860 200.378 198.658 199.073 199.677 200.071 198.856 199.207 199.597 200.071 198.826 199.207 199.695 200.164 198.576 198.576 198.576 198.576 198.576 198.576	mol/L 6.6506 6.6381 6.6258 6.6110 5.9080 5.8949 5.8850 5.1719 5.1706 5.1506 5.1506 5.1391 4.4124 4.4027 4.3934 4.4027 4.3934 2.0174 2.9059 2.8890 2.8890 2.0834 2.0794 2.0743 2.0693 1.3352 1.3250 1.3290 6.031	fraction .977 .9979	W/E .50724 .59505 .68993 .79196 .59497 .69006 .79205 .59512 .69011 .79226 .59512 .69030 .79237 .42668 .50729 .59508 .68996 .50734 .59508 .68996 .50734 .59508 .69018 .50735 .59526 .69030 .59552 .50734 .59522 .69030 .59552	Thermal Conductivity W/m.K .16859 .16823 .16917 .16907 .16742 .16664 .16711 .16726 .16518 .16517 .16557 .16567 .16363 .16388 .15688	.001 .003 .001 .001 .001 .001 .001 .001	Nom. Temperature 200.0 K W/m.K .16909 .16856 .16933 .16791 .16693 .16724 .16719 .16565 .16543 .16562 .16559 .16409 .16414 .16390 .16394 .16222 .16236 .16255 .16215 .16037 .16071 .16023 .16068 .15853 .15895 .15910 .15876 .15717 .15749 .15685 .15748 .15649	deviation expnaic- percent

						Experimental		Adj. Thermal Con	nductivity
						Thermal		Nom. Temperature	deviation
Run Pt.	Pressure	Temperature	Density	pera	Power	Conductivity	STAT	225.0 K	expcalc.
	MPa	К	mol/L	frection	W/m	W/m.K		W/m.K	percent
54001	11.782	223.012	5.8487	•9979	.40191	.17683	.003	.17756	•05
54002	11.782	223.340	5.8404	.9979	. 48 575	.17658	.002	.17719	15
54003	11.782	223.692	5.8316	.9979	.57742	•17661	.002	.17709	20
54004	11.782	224.210	5.8187	• 9979	.67710	.17683	.001	•17712	16 33
54005	11.782 11.781	224.682 225.149	5.8070 5.7953	•9979 •9979	.78479 .90091	•17669 •17678	.001 .001	•17681 •17672	36
54006 54007	10.368	223.405	5.1901	.9979	48568	.17417	.002	.17476	67
54008	10.369	223.794	5.1816	.9979	.57740	.17505	.001	.17549	24
54009	10.369	224.229	5.1719	.9979	.67716	.17488	.001	.17516	41
54010	10.369	224.693	5.1616	•9979	•78499	.17551	.001	•17562	14
54011	8.850	223.521	4.4757	•9979 •9979	.48545 .57739	.17302 .17338	.002 .002	•17356 •17380	42 28
54012 54013	8.850 8.850	223.859 224.276	4.4691 4.4611	.9979	.67714	.17328	.001	.17355	42
54014	8.850	224.771	4.4515	.9979	.78495	.17360	.001	.17368	32
54015	7.361	223.451	3.7631	.9979	.48567	.17166	.002	.17223	29
54016	7.361	223.880	3.7561	.9979	.57745	.17141	.001	.17182	51
54017	7.361	224.367	3.7481	• 9979	.67726	.17204	.001	.17227	-•24 . -•33
54018 54019	7.361 6.059	224.877 223.536	3.7398 3.1248	•99 7 9	.78508 .48569	•17205 •17020	.001 .002	•17210 •17074	36
54020	6.059	223.991	3.1186	9979	.57753	.16991	.001	.17028	62
54021	6.059	224.490	3.1117	.9979	.67719	.17041	.001	.17060	42
54022	6.059	224.960	3.1054	.9979	.78512	.17089	.001	•17090	23
54023	4.628	223.626	2.4096	.9979	.48564	.16807	.002	•16857	76
54024	4.628	224.059	2.4050	•9979 •9979	.57746 .67721	.16867 .16859	.001	.16901 .16876	49 64
54025 54026	4.628	224.547 225.094	2.3941	.9979	.78513	.16922	.001	.16919	37
54027	3.259	223.690	1.7181	.9979	.48586	.16673	.002	.16721	74
54028	3.269	224.186	1.7143	.9979	.57771	.16775	.001	.16805	23
54029	3.269	224.699	1.7104	•9979	•67749	•16748	.001	.16759	50
54030	3.269	223.292	1.7211	.9979	.40197	•16673	•002	•16735	65 53
54031 54032	1.842	223.183 223.629	•9799 •9780	•9979 •9979	.40190	•16542 •16613	.003 .002	.16608 .16663	20
54033	1.842	224.070	.9759	9979	.57747	.16559	.002	.16593	62
54034	1.842	224.580	.9737	.9979	.67724	.16620	.002	•16635	36
54035	•987	223.280	•5280	•9979	.40181	.16450	.009	.16513	58
54036	•987	223.694	•5270	.9979	.48554	•16456	•007	•16504	63
54037	• 986	224.088	•5257	•9979	•57748	•16555	•006	.16588	12
54020	0.94	224 552					.005		61
54038	.986	224.552	.5246	.9979	.67720	.16490	.005	.16506	61
5403A	•986	224.552				.16490 Experimental		.16506 Adj. Thermal Con	nductivity
			.5246	•9979	.67720	.16490 Experimental Thermal		.16506 Adj. Thermal Co Nom. Temperature	nductivity deviation
54038 Run Pt.	.986 Pressure MPa	224.552 Temperature				.16490 Experimental		.16506 Adj. Thermal Con	nductivity
Run Pt.	Pressure MPa	Temperature K	.5246 Density mol/L	.9979 pare fraction	.67720 Power W/m	•16490 Experimental Thermal Conductivity W/m.K	STAT	.16506 Adj. Thermal Co Nom. Temperature 150.0 K W/m.K	nductivity deviation expcalc. percent
Run Pt. 57001	Pressure MPa 11.718	Temperature K 148.367	.5246 Density mol/L 8.6654	.9979 pare fraction .9979	.67720 Power W/m	.16490 Experimental Thermal Conductivity W/m.K	STAT .001	.16506 Adj. Thermal Co. Nom. Temperature 150.0 K W/m.K .14662	nductivity deviation expcalc. percent
Run Pt. 57001 57002	Pressure MPa 11.718 11.718	Temperature K 148.367 148.697	.5246 Density moi/L 8.6654 8.6461	.9979 pare fraction .9979	.67720 Power W/m .42424	.16490 Experimental Thermal Conductivity W/m.K .14529	.001 .001	.16506 Adj. Thermal Col Nom. Temperature 150.0 K W/m.K .14662 .14667	deviation expcalc. percent
Fun Pt. 57001 57002 57003	Pressure MPa 11.718 11.718 11.718	Temperature K 148.367 148.697 149.030	.5246 Density moi/L 8.6654 8.6461 8.6266	.9979 pare fraction .9979 .9979	.67720 Power W/m .42424 .49217 .56531	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574	.001 .001	.16506 Adj. Thermal Connom. Temperature 150.0 K W/m.K .14662 .14667 .14653	nductivity deviation expcaic. percent .13 .20 .14
Run Pt. 57001 57002	Pressure MPa 11.718 11.718 11.718 11.718	Temperature K 148.367 148.697	.5246 Density moi/L 8.6654 8.6461	.9979 pare fraction .9979	.67720 Power W/m .42424 .49217 .56531	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590	.001 .001	.16506 Adj. Thermal Col Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631	deviation expcalc. percent
57001 57002 57003 57004	Pressure MPa 11.718 11.718 11.718	Temperature K 148.367 148.697 149.030 149.498	.5246 Density mol/L 8.6654 8.6461 8.6266 8.5996	.9979 pare fraction .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574	.001 .001 .001	.16506 Adj. Thermal Connom. Temperature 150.0 K W/m.K .14662 .14667 .14653	nductivity deviation expcaic. percent .13 .20 .14 .03
57001 57002 57003 57004 57005 57006 57007	Pressure MPa 11.718 11.718 11.718 11.718 10.293 10.293 10.293	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759	.5246 Density moi/L 8.6654 8.6461 8.6266 8.5996 7.7065 7.6914 7.6741	.9979 pare fraction .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .9239	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590 .14263 .14271 .14357	STAT .001 .001 .001 .001 .002 .002 .002	.16506 Adj. Thermal Connom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14387	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27
57001 57002 57003 57004 57005 57006 57007 57008	Pressure MPa 11.718 11.718 11.718 11.718 10.293 10.293 10.293	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480	.5246 Density mol/L 8.6654 8.6461 8.6266 8.5996 7.7065 7.6914 7.6741 7.6539	.9979 pare fraction .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .49239 .56559	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590 .14263 .14271 .14357 .14375	.001 .001 .001 .001 .002 .002 .002	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14387 .14431 .14417	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27
57001 57002 57003 57004 57005 57006 57007 57008 57009	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 10.293 8.820	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454	.5246 Density mol/L 8.6654 8.6461 8.6266 8.5996 7.7065 7.6914 7.6739 6.6914	.9979 pare fraction .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .49239 .56559 .64402	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590 .14263 .14271 .14357 .14375 .14026	.001 .001 .001 .002 .002 .002	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14372 .14431 .14417 .14152	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102
57001 57002 57003 57004 57005 57006 57007 57008 57009 57010	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 10.293 8.820 8.821	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454 148.793	.5246 Density mol/L 8.6654 8.6461 8.6266 8.5996 7.7065 7.6914 7.6539 6.6914 6.6761	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .49239 .56559 .64402 .42455 .49246	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14570 .14263 .14271 .14357 .14375 .14026 .14061	.001 .001 .001 .002 .002 .002	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14372 .14431 .14417 .14152 .14159	.13 .20 .14 .03 09 17 .27 .21
57001 57002 57003 57004 57005 57006 57007 57008 57009	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 8.820 8.821 8.821 8.821	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454	.5246 Density mol/L 8.6654 8.6461 8.6266 8.5996 7.7065 7.6914 7.6739 6.6914	.9979 pare fraction .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .49239 .56559 .64402	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590 .14263 .14271 .14357 .14375 .14026	.001 .001 .001 .002 .002 .002	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14372 .14431 .14417 .14152	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102
57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 10.293 8.820 8.821 8.821 8.821 7.343	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.754 148.793 149.284 149.644 148.504	.5246 Density mol/L 8.6654 8.6461 8.6266 8.5996 7.7065 7.6914 7.6539 6.6914 6.6761 6.6538 5.6387	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .49239 .56559 .64402 .42455 .49246 .5657 .49247	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590 .14263 .14271 .14357 .14375 .14026 .14061 .14123 .14118 .13796	.001 .001 .001 .002 .002 .002 .001 .002	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14431 .14417 .14152 .14159 .14159 .14181 .14167 .13917	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05
57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 10.293 8.820 8.821 8.821 7.343 7.343	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454 148.793 149.284 149.644 148.504 148.943	Density mol/L 8.6654 8.6461 8.6266 8.5996 7.7065 7.6741 7.6539 6.6761 6.6538 6.6375 5.6387	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	Power W/m 42424 49217 56531 64386 42438 49239 56559 64402 42455 49246 56570 64437 42471	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14570 .14263 .14271 .14357 .14375 .14026 .14061 .14123 .14118 .13796 .13896	.001 .001 .001 .002 .002 .002 .001 .002	.16506 Adj. Thermal Connom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .1437 .14372 .14431 .14417 .14152 .14159 .14169 .14147 .13982	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54
57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015	Pressure MPa 11.718 11.718 11.718 11.718 10.293 10.293 10.293 8.820 8.821 8.821 8.821 7.343 7.343	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.793 149.284 149.284 149.644 148.504 148.793 149.284	Density moi/L 8.6654 8.6461 8.6266 8.5996 7.706741 7.6741 7.67539 6.6914 6.6761 6.6538 6.6375 5.6387 5.63875	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .56559 .64402 .42455 .49246 .56570 .64437 .42471 .56616	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590 .14263 .14271 .14357 .14357 .14026 .14061 .14123 .14118 .13796 .13896 .13904	STAT .001 .001 .001 .002 .002 .002 .001 .001	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14372 .14431 .14417 .14152 .14159 .14181 .14147 .13917 .13982 .13956	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54
57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 8.820 8.821 8.821 7.343 7.343 7.343	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454 148.793 149.284 149.664 148.504 148.504 148.943 149.353 149.692	.5246 Density moi/L 8.6654 8.6461 8.6266 8.5996 7.7065 7.6914 7.6741 7.6539 6.6914 6.6761 6.6538 6.6375 5.6387 5.6262 5.5932	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .9239 .56559 .64402 .42455 .49246 .49271 .56616 .64479	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590 .14263 .14271 .14357 .14375 .14061 .14123 .14118 .13796 .13896 .13904 .13911	STAT .001 .001 .001 .002 .002 .001 .001 .00	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14372 .14431 .14417 .14152 .14159 .14181 .14147 .13917 .13982 .13956 .13936	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54 .38 .26
57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015	Pressure MPa 11.718 11.718 11.718 11.718 10.293 10.293 10.293 8.820 8.821 8.821 8.821 7.343 7.343	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.793 149.284 149.284 149.644 148.504 148.793 149.284	Density moi/L 8.6654 8.6461 8.6266 8.5996 7.706741 7.6741 7.67539 6.6914 6.6761 6.6538 6.6375 5.6387 5.63875	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .56559 .64402 .42455 .49246 .56570 .64437 .42471 .56616	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590 .14263 .14271 .14357 .14357 .14026 .14061 .14123 .14118 .13796 .13896 .13904	STAT .001 .001 .001 .002 .002 .002 .001 .001	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14372 .14431 .14417 .14152 .14159 .14181 .14147 .13917 .13982 .13956	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54
7001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015 57016 57017	Pressure MPa 11.718 11.718 11.718 11.718 10.293 10.293 10.293 10.293 8.820 8.821 8.821 8.821 7.343 7.343 7.343 7.343 7.343 6.100 6.100	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.480 148.454 148.793 149.284 149.644 148.793 149.284 149.644 148.634 149.353 149.353 149.694	.5246 Density moi/L 8.6654 8.6461 8.6266 8.5996 7.706741 7.6741 7.6539 6.6914 6.6761 6.6538 6.6375 5.6387 5.6219 5.6062 5.5932 4.7381 4.7161	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	Power W/m .42424 .49217 .56531 .64386 .42438 .56559 .64402 .42455 .42457 .42471 .56616 .64479 .36193 .42478 .49298	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14570 .14263 .14271 .14357 .14026 .14061 .14123 .14118 .13796 .13896 .13904 .13911 .13604	STAT .001 .001 .001 .002 .002 .001 .001 .00	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14372 .14372 .14431 .14417 .14152 .14159 .14181 .14147 .13917 .13982 .13956 .13936 .13740 .13740 .13722 .13761	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54 .38 .26 .22 .10
57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015 57016 57017 57018 57019	Pressure MPa 11.718 11.718 11.718 11.718 10.293 10.293 10.293 8.820 8.821 8.821 7.343 7.343 7.343 6.100 6.100 6.100	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.793 149.284 148.793 149.284 148.504 148.504 148.943 149.353 149.692 148.314 148.634 149.004	.5246 Density moi/L 8.6654 8.6461 8.6266 8.5996 7.76914 7.6741 7.6539 6.6914 6.6538 6.6375 5.6387 5.6219 5.6219 4.7385 4.7281 4.7038	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .56559 .64402 .42455 .49246 .56570 .64437 .42471 .664479 .36193 .42478 .56631	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590 .14263 .14271 .14357 .14026 .14026 .14061 .14123 .14118 .13796 .13896 .13896 .13904 .13911 .13668	STAT .001 .001 .001 .001 .002 .002 .001 .001	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14437 .14372 .14431 .14417 .14152 .14159 .14181 .14147 .13917 .13982 .13956 .13936 .13740 .13722 .13761 .13718	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54 .38 .26 .22 .10 .40 .11
57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015 57016 57017 57018 57019 57020 57021	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 8.820 8.821 8.821 7.343 7.343 7.343 7.343 6.100 6.100 6.100 6.100	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454 148.793 149.284 149.644 148.504 148.943 149.353 149.692 148.314 148.634 149.004 149.386	.5246 Density moi/L 8.6654 8.6461 8.6266 8.5996 7.7065 7.6914 7.6741 7.6539 6.6914 6.6761 6.6761 6.6738 7.6219 5.6219 5.6387 5.6219 5.6387 5.6219 5.6387 5.6219 5.63887 5.6219 5.63887 5.6219 5.63887 5.6219 5.63887	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .49239 .64402 .42455 .49246 .56570 .64437 .42471 .59616 .64479 .36193 .42478 .56631 .36214	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14570 .14263 .14271 .14357 .14375 .14026 .14061 .14123 .14118 .13796 .13896 .13904 .13911 .13604 .13611 .13680 .13688 .13401	STAT .001 .001 .001 .002 .002 .002 .001 .002 .001 .002 .001 .002 .001 .003 .002 .001	.16506 Adj. Thermal Connom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14372 .14431 .14417 .14152 .14159 .14181 .14147 .13917 .13982 .13956 .13936 .13740 .13722 .13761 .13718 .13533	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54 .38 .26 .22 .10 .40 .11
57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015 57016 57017 57018 57019 57020 57021	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 10.293 8.820 8.821 8.821 7.343 7.343 7.343 7.343 7.343 6.100 6.100 6.100 6.100 6.100 6.100	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454 148.793 149.284 149.644 148.943 149.363 149.364 148.943 149.363 149.364	Density mol/L 8.6654 8.6461 8.6266 8.5996 7.7065 7.6741 7.6538 6.6375 5.6387 5.6387 5.6219 5.6062 5.5932 4.77385 4.7281 4.7161 4.7038 3.6381 3.6387	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	Power W/m 42424 49217 56531 64348 49239 56559 64402 42455 49246 56570 64437 42471 56616 64479 36193 42478 49298 56631 36214	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14570 .14263 .14271 .14357 .14375 .14026 .14061 .14123 .14118 .13796 .13896 .13904 .13911 .13680 .13680 .13680 .13401 .13390	STAT .001 .001 .001 .002 .002 .002 .001 .002 .001 .003 .002 .001 .003	.16506 Adj. Thermal Connom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14372 .14431 .14417 .14152 .14159 .14181 .14147 .13917 .13982 .13956 .13940 .13722 .13761 .13718 .13533 .13498	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54 .38 .26 .22 .10 .40 .41 .43 .18
57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015 57016 57017 57018 57019 57020 57021 57022 57023 57024	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 8.820 8.821 8.821 7.343 7.343 7.343 7.343 6.100 6.100 6.100 6.100	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454 148.793 149.284 149.644 148.504 148.943 149.353 149.692 148.314 148.634 149.004 149.386	.5246 Density moi/L 8.6654 8.6461 8.6266 8.5996 7.7065 7.6914 7.6741 7.6539 6.6914 6.6761 6.6761 6.6738 7.6219 5.6219 5.6387 5.6219 5.6387 5.6219 5.6387 5.6219 5.63887 5.6219 5.63887 5.6219 5.63887 5.6219 5.63887	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .49239 .64402 .42455 .49246 .56570 .64437 .42471 .59616 .64479 .36193 .42478 .56631 .36214	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14570 .14263 .14271 .14357 .14375 .14026 .14061 .14123 .14118 .13796 .13896 .13904 .13911 .13604 .13611 .13680 .13688 .13401	STAT .001 .001 .001 .002 .002 .002 .001 .002 .001 .002 .001 .002 .001 .003 .002 .001	.16506 Adj. Thermal Connom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14372 .14431 .14417 .14152 .14159 .14181 .14147 .13917 .13982 .13956 .13936 .13740 .13722 .13761 .13718 .13533	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54 .38 .26 .22 .10 .40 .11 .43 .18 .33 .29
57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015 57016 57017 57018 57019 57020 57021 57022 57023 57024 57025	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 8.820 8.821 8.821 7.343 7.343 7.343 7.343 6.100 6.100 6.100 6.100 6.100 6.100 6.100 6.33 4.633 4.633 4.633 3.251	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454 148.793 149.284 149.664 148.504 148.943 149.353 149.692 148.314 148.634 149.004 149.386	.5246 Density moi/L 8.6654 8.6461 8.6266 8.5996 7.706741 7.6741 7.6739 6.6914 6.6761 6.6738 6.6375 5.6387 5.6219 5.6219 5.7385 4.7281 4.7161 4.7038 3.6381 3.6387 3.6180 3.6377	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	Power W/m .42424 .49217 .56531 .64386 .42438 .9239 .56559 .64402 .42455 .492471 .566479 .36193 .42478 .42478 .42678 .42503	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590 .14263 .14271 .14357 .14375 .14026 .14061 .14123 .14118 .13796 .13896 .13904 .13911 .13604 .13611 .13680 .13688 .13401 .13390 .13449 .13475 .13174	STAT .001 .001 .001 .002 .002 .002 .001 .002 .001 .002 .001 .003 .002 .001 .003 .002 .001 .002	.16506 Adj. Thermal Connom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14431 .14417 .14152 .14459 .14181 .14147 .13917 .13982 .13956 .13936 .13740 .13722 .13761 .13718 .13533 .13498 .13515 .13507 .13296	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54 .38 .26 .22 .10 .40 .11 .43 .18 .33 .29 .30
7001 57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015 57016 57017 57018 57019 57020 57021 57022 57023 57024 57025 57026	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 8.820 8.821 8.821 7.343	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454 148.754 148.704 148.928 149.644 148.93 149.353 149.364 149.004 149.004 149.388 149.388 149.388	.5246 Density mol/L 8.6654 8.6661 8.6266 8.5996 7.70651 7.66741 7.6538 6.6375 5.6387 5.6219 5.6062 5.5938 4.7281 4.7161 4.7038 3.6307 3.6180 3.60770 2.5699	.9979 pare fraction .9979	Power W/m 42424 49217 56531 64386 42438 49239 56559 64402 42455 49246 56570 64437 42471 56616 64479 36193 42478 49298 565631 36214 42503 49332 56689 42539	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14570 .14263 .14271 .14357 .14375 .14026 .14061 .14123 .14118 .13796 .13896 .13904 .13911 .13680 .13680 .13680 .13680 .13680 .13449 .13475 .13174 .13215	STAT .001 .001 .001 .002 .002 .002 .001 .002 .001 .003 .002 .001 .002 .001 .002 .001 .002	.16506 Adj. Thermal Connom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14372 .14431 .1417 .14152 .14159 .14181 .14147 .13917 .13982 .13956 .13740 .13722 .13761 .13718 .13515 .13507 .13296 .13304	nductivity deviation expcaic. percent .13 .20 .14 .030917 .2102 .06 .25 .04 .05 .54 .38 .26 .22 .10 .40 .41 .43 .18 .33 .29 .30 .37
7001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015 57016 57017 57018 57019 57020 57021 57022 57023 57024 57025 57026 57027	Pressure MPa 11.718 11.718 11.718 11.718 10.293 10.	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.473 149.284 149.644 148.793 149.284 149.644 148.793 149.353 149.692 148.313 149.353 149.353 149.692 148.314 148.634 149.384 149.386 149.386	.5246 Density mol/L 8.6654 8.6461 8.6266 8.59965 7.6914 7.6538 6.6375 5.6319 5.6062 5.5932 4.7281 4.7161 4.7038 3.6387 3.6380 3.6307 3.6180 3.6307 2.55694	.9979 pare fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	Power W/m .42424 .49217 .56531 .64386 .42438 .49239 .56559 .64402 .42455 .42455 .42471 .56616 .64479 .42471 .56631 .36219 .42539 .42539 .42539	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14563 .14271 .14357 .14357 .14375 .14026 .14061 .14123 .14118 .13796 .13896 .13904 .13911 .13680 .13668 .13401 .13680 .13668 .13401 .13680 .13449 .13475 .13174 .13215 .13244	STAT .001 .001 .001 .002 .002 .001 .001 .00	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14372 .14372 .14431 .14417 .14152 .14159 .14181 .14147 .13917 .13982 .13956 .13956 .13740 .13740 .13722 .13761 .13718 .13533 .13498 .13515 .13507 .13296 .13308	nductivity deviation expcaic. percent .13 .20 .14 .030917 .2102 .06 .25 .04 .05 .54 .38 .26 .22 .10 .40 .11 .43 .18 .33 .29 .30 .37 .41
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Fun Pt. 57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015 57016 57017 57018 57019 57020 57021 57022 57023 57024 57025 57026 57027 57028 57029 57030 57031 57032	Pressure MPa 11.718 11.718 11.718 11.718 10.293 10.293 10.293 10.293 8.820 8.821 8.821 7.343 7.	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.473 149.284 149.644 148.793 149.284 149.664 148.943 149.333 149.692 148.314 148.634 149.004 149.386 149.180 149.386 149.601 148.493 148.493 148.493 148.493 148.493 148.493 148.493 148.493 148.493 148.493 148.493 148.493 148.493 148.493 148.493 148.493 148.493 149.505 149.667	.5246 Density mol/L 8.6654 8.6461 8.6266 8.59965 7.70614 7.6741 7.6539 6.6914 6.6761 6.6538 6.6375 5.6219 5.6212 5.5932 4.7381 4.7181 4.7038 3.6381 3.6381 3.6381 3.6381 3.6381 3.6381 3.6381 3.6381 3.6381 3.6381 3.6381	.9979 pare fraction .9979	.67720 Power W/m .42424 .49217 .56531 .64386 .42438 .56559 .64402 .42455 .42457 .42471 .566163 .36214 .42503 .42503 .56686 .36219 .42539 .56686 .36219 .42539 .42561 .42561 .42561	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14563 .14271 .14357 .14357 .14375 .14026 .14061 .14123 .14118 .13796 .13896 .13904 .13911 .13661 .13668 .13401 .13668 .13401 .13668 .13401 .13680 .13449 .13475 .13174 .13215 .13244 .13283 .12936 .12965 .13017 .13050	STAT .001 .001 .001 .002 .002 .001 .001 .00	.16506 Adj. Thermal Colling Nom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14631 .14387 .14372 .14431 .14417 .14152 .14159 .14181 .14147 .13917 .13982 .13956 .13740 .13722 .13761 .13718 .13533 .13498 .13515 .13507 .13296 .13304 .13308 .13311 .13072 .13089 .13089	nductivity deviation expcaic. percent .13 .20 .14 .030917 .2102 .06 .25 .04 .05 .54 .38 .26 .22 .10 .40 .11 .43 .18 .29 .30 .37 .41 .45 .18 .22 .32
Fun Pt. 57001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57015 57016 57017 57018 57019 57020 57021 57022 57023 57024 57025 57026 57027 57028 57029 57030 57031 57032 57033	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 8.820 8.821 8.821 7.343 7.343 7.343 7.343 6.100 6.100 6.100 6.100 6.100 6.100 6.100 6.100 9.100	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454 148.793 149.284 149.664 148.504 148.943 149.353 149.692 148.314 148.668 149.180 149.384 149.384 149.384 149.386 149.180 149.386 149.180 149.386 149.180 149.386 149.180 149.386 149.180 149.386 149.180 149.386	.5246 Density mol/L 8.6654 8.6461 8.6266 8.5996 7.76914 7.6741 7.6539 6.69761 6.6538 6.6375 5.6219 5.6219 5.5932 4.7281 4.7161 4.7038 3.6381 3.6387 3.6381 3.6307 2.5770 2.56699 2.55647 1.5296 1.5213 1.5717 7969	.9979 pare fraction .9979	.67720 Power W/m .42424 .49217 .56531 .64388 .49239 .56559 .64402 .42455 .492471 .492	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14590 .14263 .14271 .14357 .14026 .14061 .14123 .14118 .13796 .13896 .13896 .13904 .13911 .13668 .13401 .13668 .13401 .13680 .13401 .13390 .13449 .13475 .13174 .13215 .13244 .13283 .12936 .12936 .12936 .12936 .12936 .12936 .12936 .12936 .12936	STAT .001 .001 .001 .002 .002 .001 .001 .00	.16506 Adj. Thermal Connom. Temperature 150.0 K W/m.K .14662.14667.14653.14631.14437.14372.14431.14417.14152.14159.14181.14147.13917.13982.13956.13740.13740.13722.13761.13718.13533.13498.13515.13507.13296.13304.13308.13311.13072.13089.13089.13089.13089.13008	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54 .38 .26 .22 .10 .40 .11 .43 .18 .33 .29 .30 .37 .41 .45 .18 .22 .32 .32 .33
7001 57002 57003 57004 57005 57006 57007 57008 57009 57010 57011 57012 57013 57014 57017 57018 57017 57018 57017 57018 57017 57020 57021 57022 57023 57024 57025 57026 57027 57028 57029 57031 57032 57033 57034	Pressure MPa 11.718 11.718 11.718 10.293 10.293 10.293 8.820 8.821 8.821 7.343 7.343 7.343 7.343 7.343 6.100 6.100 6.100 6.100 6.100 6.100 6.100 9.100	Temperature K 148.367 148.697 149.030 149.498 148.471 148.759 149.090 149.480 148.454 148.793 149.284 149.644 148.504 148.634 149.004 149.353 149.692 148.314 148.634 149.0001 149.386 149.180 149.601 148.638 149.601 148.638 149.180 149.601 148.638 149.180 149.601 148.638	.5246 Density mol/L 8.6654 8.6461 8.6266 8.5996 7.6741 7.6538 6.63767 6.6538 6.63767 5.6219 5.6082 4.7181 4.7181 4.7083 3.6307 3.6180 3.60770 2.5694 2.55676 1.5213 1.5171 .7949	.9979 pare fraction .9979	.67720 Power W/m .42424 .49217 .56531 .64383 .49239 .56559 .64402 .42455 .42455 .49246 .56570 .64437 .49271 .56616 .64479 .36193 .42478 .49298 .56619 .42539	.16490 Experimental Thermal Conductivity W/m.K .14529 .14561 .14574 .14570 .14263 .14271 .14357 .14375 .14026 .14061 .14123 .14118 .13796 .13896 .13904 .13911 .13680 .13680 .13611 .13680 .13611 .13680 .13449 .13475 .13174 .13215 .13244 .13283 .12936 .12965 .13017 .13050	STAT .001 .001 .001 .002 .002 .001 .002 .001 .003 .002 .001 .002 .001 .002 .001 .002 .001 .002 .001 .002 .001 .003 .002 .001 .003 .003 .003	.16506 Adj. Thermal Connom. Temperature 150.0 K W/m.K .14662 .14667 .14653 .14372 .14431 .14417 .14152 .14159 .14181 .14147 .13917 .13982 .13956 .13740 .13722 .13761 .13718 .13515 .13507 .13296 .13304 .13308 .13311 .13072 .13089 .13089 .13089 .13089 .12965	nductivity deviation expcaic. percent .13 .20 .14 .030917 .27 .2102 .06 .25 .04 .05 .54 .38 .26 .22 .10 .40 .11 .43 .18 .33 .29 .30 .37 .41 .45 .18 .22 .32 .33 .77 .45
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Run Pt.							Experimental		Adj. Thermal Cor	nductivity
TOOL Traction Vie	Pue Pt.	Proceura	Temperature	Density	nere	Power	Thermal	TATS		
17038 07.237 148.823 29.6183 8394 .00223 .23405 .001 .23601 .1357 .001 .23601 .1357 .001 .23601 .1357 .001 .23601 .1357 .001 .23601 .1357 .001 .23601 .1357 .001 .23601 .1357 .001 .23601 .1357 .001 .23601 .1357 .001 .23601 .1357 .001 .23601 .1357 .001 .23601 .	Kun Fts							JIAI		
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57044 62,5490 149,867 28,4567 8377 1,21040 22082 001 22694 -09 57043 50,102 148,8702 27,7224 8856 81034 22192 002 22300 -28 57048 50,178 149,904 27,620 8352 1,21424 1001 22107 06 57048 50,178 149,904 27,620 8352 1,21424 1001 22107 06 57049 55,1839 148,394 24,9450 8352 1,21424 12134 001 21077 -15 57052 55,460 149,338 26,0637 8351 1,2150 12134 001 21077 -15 57053 52,246 148,851 22,969 ,6338 1,2220 000 20131 1,001 101 101 107 107 107 107 107 107 107 107 107 107 107 107 107 107 107 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
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57101 17.231 148.450 12.0664 .7860 .49188 .14658 .001 .14778 40 57102 17.232 148.656 12.0506 .7859 .56474 .14646 .001 .14750 55 57103 17.232 149.103 12.0162 .7859 .64331 .14677 .001 .14747 51 57104 17.232 149.526 11.9837 .7858 .72695 .14707 .001 .14744 46 57105 15.026 148.615 10.7457 .7845 .49211 .14287 .001 .14394 35 57106 15.027 148.807 10.7326 .7844 .56498 .14288 .001 .14380 42 57107 15.027 149.286 10.6990 .7843 .64346 .14292 .001 .14347 58 57108 15.028 149.636 10.6748 .7843 .72724 .14329 .001 .14357 46 57109 13.084 149.636 10.6748 .7832 .49199 .13								.002		
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57107 15.027 149.286 10.6990 .7843 .64346 .14292 .001 .14347 58 57108 15.028 149.636 10.6748 .7843 .72724 .14329 .001 .14357 46 57109 13.084 148.552 9.5389 .7832 .49199 .13947 .001 .14058 34 57110 13.084 149.020 9.5096 .7832 .56532 .13961 .002 .14036 44 57111 13.084 149.340 9.4895 .7831 .64370 .13989 .001 .14040 37 57112 13.084 149.827 9.4589 .7830 .72768 .14019 .001 .14032 37 57113 11.011 148.337 8.1977 .7821 .42426 .13631 .001 .13758 .05 57114 11.011 148.702 8.1774 .7820 .49227 .13625 .001 .13724 16			148.615							
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57112 13.084 149.827 9.4589 .7830 .72768 .14019 .001 .14032 37 57113 11.011 148.337 8.1977 .7821 .42426 .13631 .001 .13758 .05 57114 11.011 148.702 8.1774 .7820 .49227 .13625 .001 .13724 16										
57113 11.011 148.337 8.1977 .7821 .42426 .13631 .001 .13758 .05 57114 11.011 148.702 8.1774 .7820 .49227 .13625 .001 .1372416										
57114 11.011 148.702 8.1774 .7820 .49227 .13625 .001 .1372416										
										16
									•13708	24

57116	11.011	149.510	8.1332	.7819	.64409	.13686	.001	.13724	08
			6.8315	.7809	.42452	.13261	.001	.13387	19
57117	9.014	148.347							
57118	9.014	148.871	6.8071	.7808	.49271	.13295	.001	•13381	19
57119	9.014	149.248	6.7896	.7807	•56599	•13277	.002	•13334	51
57120	9.014	149.607	6.7733	.7807	.64439	.13340	.001	.13370	21
									08
57121	6.705	148.535	5.1750	•7796	.42468	.12904	.001	•13015	
57122	6.705	148.931	5.1610	• 7795	.49303	•12973	.001	.13054	.24
57123	6.705	149.364	5.1457	.7794	.56635	.12987	.001	•13035	•13
								.13034	•15
57124	6.705	149.849	5.1287	•7794	•64515	.13023	.001		
57125	4.660	148.282	3.6609	.7784	.36201	.12578	.001	•12708	•11
57126	4.660	148.675	3.6510	.7783	.42503	.12598	.001	•12698	•05
		149.223	3.6373	•7783	.49334	.12637	.001	.12696	.05
57127	4.660								
57128	4.660	149.558	3.6290	.7782	•56679	.12676	.001	•12710	.17
57129	2.627	148.570	2.0906	.7774	• 36228	.12259	.001	•12367	03
57130	2.627	148.948	2.0853	.7773	.42537	.12293	.001	•12373	.02
								•12375	•05
57131	2.627	149.394	2.0789	•7772	.49364	•12329	.001		
57132	2.627	149.880	2.0721	•7772	•56728	•12381	.001	.12390	•19
						Experimental		Adj. Thermal Con	ductivity
								Nom. Temperature	devistion
						Thermal			
Run Pt.	Pressure	Temperature	Density	para	Power	Conductivity	STAT	250.0 K	expcaic.
	MPs	K	#ol/L	fraction	W/m	W/m.K		W/m .K	percent
		05/ 000		04.75	44220	2/30/	003	24014	02
53002	66.948	254.020	21.1381	.8475	.66329	.24194	.001	.24014	
53003	66.949	254.732	21.0976	.8473	•90091	.24212	.001	•24000	.01
53004	66.948	255.490	21.0545	.8470	1.17540	.24207	.001	.23961	05
					.77742		.001	. 23602	04
53007	63.432	254.435	20.3774	.8445		•23799			
5 3 0 0 8	63.432	255.139	20.3380	.8443	1.03354	.23763	.001	•23535	24
53009	63.432	255.482	20.3188	.8441	1.17552	.23829	.001	.23585	.02
		254.014	19.6379	.8417	.66326	.23433	•002	.23256	.10
5 3 0 1 1	59.925								
53012	59.924	254.440	19.6142	.8415	•77740	.23387	.001	•23191	12
53013	59.924	255.219	19.5713	.8414	1.03335	.23390	.001	.23160	17
53014	59.922	255.560	19.5524	.8412	1.17525	.23431	.001	.23186	01
5 3016	56.565	254.094	18.8752	.8369	•66318	.23041	.001	.22862	.04
53017	56.564	254.391	18.8590	.8367	•77741	•23050	.001	•22858	•06
53018	56.563	255.187	18.8159	.8366	1.03349	.23109	.002	.22882	•26
53019	56.562	255.607	18.7931	.8364	1.17526	.23064	.001	.22819	.03
5 30 21	53.106	254.170	18.0607	.8339	.66316	• 22636	.002	• 22455	05
53022	53.105	254.571	18.0393	.8338	.77722	.22634	.002	. 22435	10
53023	53.104	255.300	18.0007	.8336	1.03358	.22622	.001	•22392	21
	53.103	255.765	17.9761	.8334	1.17509		.001	.22451	.10
53024						.22701			
53026	49.500	254.142	17.1828	.8312	•66315	.22258	.002	•22079	•04
53027	49.499	254.603	17.1591	.8311	.77724	• 22270	.001	.22072	• 0 5
53028	49.498	255.378	17.1191	.8309	1.03351	.22276	.001	.22044	.01
53029	49.498	255.842	17.0954	.8307	1.17519	.22281	.001	.22029	01
5 3 0 3 1	40.370	253.953	14.7905	.8281	• 55 775	•21236	.002	.21069	10
53032	40.369	254.226	14.7775	.8279	.66315	•21329	.001	•21151	•31
5 3 0 3 3	40.368	255.091	14.7369	.8277	.90077	. 21250	.001	.21035	16
53034	40.367	255.520	14.7167	.8276	1.03343	.21330	.001	•21097	.17
53036	36.797	253.920	13.7764	.8252	.55787	. 20886	.002	.20722	.07
53037	36.796	254.291	13.7596	.8251	.66301	.20885	.001	.20705	.02
53038	36.796	255.105	13.7233	.8249	.90082	.20945	.001	.20731	.21
53039	36.795	255.606	13.7011	.8247	1.03330	.20929	.001	. 20694	.07
53041	33.258	253.980	12.7215	.7510	•55728	•20329	.002	.20157	22
53042	33.258	254.373	12.7048	.7508	.66258	.20362	.002	.20173	11
5 3 0 4 3	33.258	255.137	12.6727	.7507	.90023	.20353	.001	.20131	26
53044	33.257	255.621	12.6524	• 7505	1.03270	.20410	.001	.20167	05
53046	29.812	253.751	11.6583	.7486	•55697	.19920	.002	.19759	42
53047	29.812	254.218	11.6399	.7484	.66188		.002	.19746	46
53048	29.811	255.113	11.6046	.7483	.89921		.001	.19802	11
53049	29.811								
		255.574	11.5866	•7482	1.03141	•20025	.001	.19785	17
53051	26.240	253.511	10.5031	.7462	.46104	.19494	.003	.19344	68
53052	26.240	253.825	10.4914	.7461	•55699	.19552	.002	.19388	43
53053	26.239	254.675	10.4603	.7459	.77636	.19596	.002	.19396	34
53054	26.239								
		255.139	10.4436	• 7458	.89966	•19638	.001	.19418	20
53056	22.941	253.546	9.3753	.7440	•46095	•19274	.002	.19123	07
53057	22.940	253.845	9.3651	.7439	.55704	.19296	.002	.19132	01
53058	22.939	254.733	9.3355	.7438	.77621	.19240	.001	.19039	45
53059	22.938	255.179	9.3206	•7436	.89970		.001	.19060	32
53061	19.378	253.535	8.1019	•7415	.46121	.18837	.002	.18687	48
53062	19.376	253.943	8.0896	.7413	.55731	.18882	.002	.18715	31
5 3 0 6 3	19.376	254.852	8.0629	.7411	.77669		.002	.18700	35
53064									
	19.375	255.522	8.0433	• 74 09	.89975	.18910	.001	.18676	45
53066	15.867	253.645	6.7828	.7385	.46131	.18510	.002	.18356	38
53067	15.866	254.014	6.7735	.7384	.55731	.18599	.002	.18430	.03
53068	15.866	254.885	6.7517	.7382	.77685	.18571	.002	.18365	29
53069	15.866	255.421	6.7384	.7381	.90023	.18603	.002	.18374	22
53071	13.129	253.707	5.7113	•7339	.46136	.18214	.002	.18058	53
53072	13.128	254.116	5.7024	.7337	.55726	.18278	.002	.18104	25
53073	13.128	254.937	5.6850	.7336	.77694	.18357	.002	.18149	
									.01
53074	13.128	255.520	5.6727	• 7335	.90051	.18367	.001	.18134	05
53076	10.997	253.720	4.8504	.7317	.46135	.18037	.002	.17880	36
53077	10.997	254.162	4.8423	.7315	.55727		.002	.17886	32
53078	10.997	254.654	4.8332	.7314	.66241		.002	.17887	30
53079	10.996	255.113	4.8248	.7313	.77666	.18154	.001	.17939	00

53081	8.938	252 000	6 0136	7204	44114	17950	003	17494	- 17
		253.900	4.0136	. 7294	.46114	.17850	.003	.17686	37
53082	8.987	254.291	4.0072	•7292	•55722	•17857	•002	•17676	41
53083	8.927	254.778	3.9998	•7290	.66240	.17921	.002	.17720	15
53084	8.986	255.226	3.9927	.7288	.77680	.17948	.002	.17728	10
53066	5.828	253.903	3.0924	•7271	.46119	.17667	.003	.17503	24
53087	6.828	254.294	3.0876	• 7269	.55726	.17689	.002	• 17509	20
53088	6.828	254.845	3.0810	.7268	.66227	.17694	.002	.17490	30
53089	6.827	255.342	3.0750						
				•7267	.77652	•17712	.002	.17487	31
53091	4.791	253.932	2.1986	• 7248	.46176	.17411	.003	•17246	62
53092	4.790	254.385	2.1944	.7246	.55781	.17498	.002	.17314	22
53093	4.790	254.952	2.1896	.7244	.66315	.17504	.002	•17296	32
53094	4.790	255.495	2.1849	.7242	.77750	•17562	.002	•17331	10
53096	2.782	253.984	1.2935	•7221	•46160	•17358	•006	.17191	•15
53097	2.782	254.454	1.2909	.7220	.55769	.17301	.005	.17114	29
53098	2.781	254.978	1.2880	.7218	.66303	•17325	.004	•17116	27
53099	2.781	255.503	1.2852	.7216	•77743	•17396	.004	•17165	•02
53101	.841	253.610	.3966	.7187	.37459	.17174	.008	.17022	.25
53102	.841	254.033	.3960	•7186	.46161	.17150	•006	•16981	•01
53103	.840	254.567	.3948	.7184	.55771	•17173	.007	.16981	•01
53104	.840	255.105	.3940	.7183	.66302	.17220	.006	.17005	•16
			• - · · •						
						Experimentai		Adj. Thermal Con	
						Thermal		Nom. Temperature	deviation
Pun Pt.	Pressure	Temperature	Density	Para	Power	Conductivity	STAT	250.0 K	expcalc.
	MPa	K	moi/L		W/m	W/m.K		W/m.K	
	ara	Λ.	moi/L	fraction	H / T	#/M+K		A-m/#	percent
53105	12.019	252.681	5.2867	.9979	. 45959	.18528	.002	.18431	54
53106	12.019	252.985	5.2806	9979	.55537	.18577	.002	•18469	32
53107	12.019	253.467	5.2711	.9979	.66012	.18549	.002	.18424	 56
53108	12.019	253.963	5.2612	.9979	.77390	.18620	.002	.18477	26
53109	12.019	254.473	5.2512	9979	.89710	.18613	.001	18451	38
53110	10.479	252.774	4.6541	• 9979	.45944	.18345	.003	.18245	76
53111	10.479	253.087	4.6485	•9979	.55512	.18407	.002	.18296	47
53112	10.479	253.528	4.6408	.9979	.65996	.18406	.002	. 18279	55
53113	10.479	254.015	4.6321	9979	.77374		.002	.18320	32
						.18465			
53114	9.030	252.700	4.0499	.9979	• 45 95 9	.18249	.003	.18152	52
53115	9.030	253.131	4.0433	.9979	•55517	.18302	.002	.18189	30
53116	9.030	253.529	4.0368	.9979	.66009	.18291	.002	.18164	44
53117	9.029	254.062	4.0285	. 9979	.77384	.18311	.001	•18165	42
53118	7.516	252.672	3.4047	• 9979	• 45962	•18 07 5	.003	.17979	70
53119	7.516	253.120	3.3987	.9979	.55518	.18127	.002	.18015	49
		253.664							
53120	7.515		3.3915	• 9979	.65989	.18099	.002	.17967	74
53121	7.515	254.108	3.3857	• 9979	.77383	.18155	.002	.18007	51
53122	6.123	252.758	2.7982	.9979			.003		
53122	6 • 123	252.758	2.7982	.9979	.45949	.17922	.003	.17823	85
5312 3	6.123	253.202	2.7934	.9979	.45949 .55505	•17922 •17955	.002	•17823 •17840	85 74
					.45949	.17922		.17823	85 74 44
5312 3 53124	6 • 123 6 • 123	253.202 253.664	2.7934 2.7882	•9979 •99 7 9	.45949 .55 5 05 .65982	.17922 .17955 .18024	.002 .002	•17823 •17840 •17893	85 74 44
53123 53124 53125	6.123 6.123 6.122	253.202 253.664 254.160	2.7934 2.7882 2.7828	.9979 .9979 .9979	.45949 .55505 .65982 .77372	.17922 .17955 .18024 .18023	.002 .002	•17823 •17840 •17893 •17874	85 74 44 54
53123 53124 53125 53126	6.123 6.123 6.122 4.589	253.202 253.664 254.160 252.851	2.7934 2.7882 2.7828 2.1621	.9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372	.17922 .17955 .18024 .18023 .17824	.002 .002 .002	.17823 .17840 .17893 .17874 .17722	85 74 44 54 67
53123 53124 53125 53126 53127	6.123 6.123 6.122 4.689 4.688	253.202 253.664 254.160 252.851 253.306	2.7934 2.7882 2.7828 2.1621 2.1581	.9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942	.17922 .17955 .18024 .18023	.002 .002 .002 .002	.17823 .17840 .17893 .17874 .17722 .17713	85 74 44 54 67 72
53123 53124 53125 53126	6.123 6.123 6.122 4.589	253.202 253.664 254.160 252.851	2.7934 2.7882 2.7828 2.1621 2.1581	.9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372	.17922 .17955 .18024 .18023 .17824	.002 .002 .002	.17823 .17840 .17893 .17874 .17722	85 74 44 54 67
53123 53124 53125 53126 53127 53128	6.123 6.123 6.122 4.689 4.688 4.688	253.202 253.664 254.160 252.851 253.306 253.787	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541	.9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499	.17922 .17955 .18024 .18023 .17824 .17831	.002 .002 .002 .002	.17823 .17840 .17893 .17874 .17722 .17713	85 74 44 54 67 72 58
53123 53124 53125 53126 53127 53128 53129	6.123 6.123 6.122 4.689 4.688 4.688	253.202 253.664 254.160 252.851 253.306 253.787 254.271	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499	.9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65988	.17922 .17955 .18024 .18023 .17824 .17831 .17871	.002 .002 .002 .002 .002	.17823 .17840 .17893 .17874 .17722 .17713 .17735	85 74 44 54 67 72 58 42
53123 53124 53125 53126 53127 53128 53129 53130	6.123 6.123 6.122 4.689 4.688 4.688 4.688	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5393	.9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65988 .77377	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917	.002 .002 .002 .002 .002 .002	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653	85 74 44 54 67 72 58 42
53123 53124 53125 53126 53127 53128 53129	6.123 6.123 6.122 4.689 4.688 4.688	253.202 253.664 254.160 252.851 253.306 253.787 254.271	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499	.9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65988	.17922 .17955 .18024 .18023 .17824 .17831 .17871	.002 .002 .002 .002 .002	.17823 .17840 .17893 .17874 .17722 .17713 .17735	85 74 44 54 67 72 58 42
53123 53124 53125 53126 53127 53128 53129 53130 53131	6.123 6.123 6.122 4.689 4.688 4.688 3.308	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5393 1.5362	.9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55498 .65988 .77377 .45935	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756	.002 .002 .002 .002 .002 .002 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634	85 74 44 54 67 72 58 42 34
53123 53124 53125 53126 53127 53128 53129 53130 53131 53132	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.308	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5393 1.5362 1.5335	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65988 .77377 .45935	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17977 .17756 .17755	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634	85 74 44 54 67 72 58 42 34 45
53123 53124 53125 53126 53127 53128 53129 53130 53131 53131	6.123 6.123 6.122 4.589 4.688 4.688 4.688 3.308 3.308 3.307	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5393 1.5335 1.5335	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .55499 .65988 .77377 .45935 .55501	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17756 .17755 .17757 .17766	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622	85 74 44 54 67 72 58 42 34 45 52
53123 53124 53125 53126 53127 53128 53129 53130 53131 53132	6.123 6.123 6.122 4.589 4.688 4.688 4.688 3.308 3.308 3.307 1.979	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5393 1.5362 1.5335	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65988 .77377 .45935 .55501 .65990 .77365	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17977 .17756 .17755	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634	85 74 44 54 67 72 58 42 42 34 45 52
53123 53124 53125 53126 53127 53128 53129 53130 53131 53131	6.123 6.123 6.122 4.589 4.688 4.688 4.688 3.308 3.308 3.307	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5393 1.5335 1.5335	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .55499 .65988 .77377 .45935 .55501	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622	85 74 44 54 67 72 58 42 34 45 52
53123 53124 53125 53126 53127 53128 53129 53130 53131 53133 53135 53135	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.308 3.307 3.307	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010	2.7934 2.7882 2.7828 2.1621 2.1581 2.1593 1.5393 1.5362 1.5335 1.5299 .9286	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65988 .77377 .45935 .55501 .65990 .77365 .55499	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592	85 74 44 54 67 72 58 42 34 45 52 59 59
53123 53124 53125 53126 53127 53128 53129 53130 53131 53132 53133 53135 53135	6.123 6.123 6.122 4.589 4.688 4.688 3.308 3.308 3.307 3.307 1.979 1.979	253.202 253.664 254.160 252.851 253.306 253.787 254.277 252.879 253.388 253.789 254.400 253.010 253.452	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5393 1.5362 1.5335 1.5299 .9286 .9287	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65988 .77377 .45935 .55501 .65990 .77365 .45936	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681	85 74 44 54 67 72 58 42 34 45 52 59 .00
53123 53124 53125 53126 53127 53128 53129 53130 53131 53132 53133 53133 53133 53137	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.610	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5393 1.5392 1.5335 1.5299 .9286 .9267 .9247 .4084	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	. 45949 .55505 .65982 .77372 .45942 .55499 .65988 .77377 .45935 .55501 .65900 .77365 .45936 .55499	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17755 .17755 .17757 .17766 .17699 .17804	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17681	85 74 44 54 67 72 58 42 34 45 59 .00 .51 .26
53123 53124 53126 53127 53128 53129 53130 53132 53133 53135 53136 53137 53138	6.123 6.123 6.122 4.689 4.688 4.688 4.688 3.308 3.308 3.307 1.979 1.979 1.979 1.979	253.202 253.664 254.160 252.851 253.306 253.72 254.271 252.879 253.388 253.788 253.789 254.400 253.610 253.452 254.855	2.7934 2.7882 2.7882 2.1621 2.1581 2.1541 2.1499 1.5335 1.5335 1.5359 9286 9267 .9267 .4084 .4077	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	. 45949 . 555082 . 65982 . 77372 . 45942 . 55499 . 65935 . 55501 . 65936 . 65936 . 55499 . 65936 . 55499	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .177607	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517	85 74 44 54 67 72 58 42 45 52 59 .00 .51 .26
53123 53124 53125 53126 53127 53128 53129 53130 53131 53132 53133 53133 53133 53137	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.610	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5393 1.5392 1.5335 1.5299 .9286 .9267 .9247 .4084	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	. 45949 .55505 .65982 .77372 .45942 .55499 .65988 .77377 .45935 .55501 .65900 .77365 .45936 .55499	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17755 .17755 .17757 .17766 .17699 .17804	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17681	85 74 44 54 67 72 58 42 34 45 59 .00 .51 .26
53123 53124 53126 53127 53128 53129 53130 53131 53133 53135 53136 53137 53138 53138	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.308 3.307 1.979 1.979 1.979 1.979	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.789 253.789 254.400 253.010 253.452 254.010 252.52	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5335 1.5362 1.5335 1.5286 9267 9287 .9287 .9287	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65505 .77372 .45942 .55499 .65935 .55501 .65990 .7365 .55499 .65977 .37263 .45936 .55499	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17601	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517	85 74 44 54 67 72 58 42 34 45 55 55 55 59 .00 .51
53123 53124 53126 53127 53128 53129 53130 53132 53133 53135 53136 53137 53138	6.123 6.123 6.122 4.689 4.688 4.688 4.688 3.308 3.308 3.307 1.979 1.979 1.979 1.979	253.202 253.664 254.160 252.851 253.306 253.72 254.271 252.879 253.388 253.788 253.789 254.400 253.610 253.452 254.855	2.7934 2.7882 2.7882 2.1621 2.1581 2.1541 2.1499 1.5335 1.5335 1.5359 9286 9267 .9267 .4084 .4077	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	. 45949 . 555082 . 65982 . 77372 . 45942 . 55499 . 65935 . 55501 . 65936 . 65936 . 55499 . 65936 . 55499	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .177607	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517	85 74 44 54 67 72 58 42 45 52 59 .00 .51 .26
53123 53124 53126 53127 53128 53129 53130 53131 53133 53135 53136 53137 53138 53138	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.308 3.307 1.979 1.979 1.979 1.979	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.789 253.789 254.400 253.010 253.452 254.010 252.52	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5335 1.5362 1.5335 1.5286 9267 9287 .9287 .9287	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65505 .77372 .45942 .55499 .65935 .55501 .65990 .7365 .55499 .65977 .37263 .45936 .55499	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17607 .17601 .17576 .17576	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17681 .17517 .17498 .17455	85 74 44 54 67 72 58 42 34 45 59 .00 .51 .26 .16 .06
53123 53124 53126 53127 53128 53129 53130 53131 53133 53135 53136 53137 53138 53138	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.308 3.307 1.979 1.979 1.979 1.979	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.789 253.789 254.400 253.010 253.452 254.010 252.52	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5335 1.5362 1.5335 1.5286 9267 9287 .9287 .9287	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65505 .77372 .45942 .55499 .65935 .55501 .65990 .7365 .55499 .65977 .37263 .45936 .55499	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17607 .17601 .17576 .17576	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17484	85 74 44 54 67 72 58 42 34 45 52 59 .00 .51 .26 .16 .06 19 02
53123 53124 53126 53127 53128 53129 53130 53131 53133 53135 53136 53137 53138 53138	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.308 3.307 1.979 1.979 1.979 1.979	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.789 253.789 254.400 253.010 253.452 254.010 252.52	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5335 1.5362 1.5335 1.5286 9267 .9247 .9247 .4084 .4077 .4067	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65505 .77372 .45942 .55499 .65935 .55501 .65990 .7365 .55499 .65977 .37263 .45936 .55499	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17607 .17601 .17576 .17576	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17681 .17517 .17498 .17455	85 74 44 54 67 72 58 42 34 45 52 59 .00 .51 .26 .16 .06 19 02
53123 53124 53126 53127 53128 53129 53130 53131 53133 53135 53136 53137 53138 53139 53140 53141	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.308 3.307 1.979 1.979 1.979 1.979 2.862 862 862	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.789 254.400 253.010 253.452 254.010 252.52.885 252.885 253.399 253.971	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5335 1.5335 1.5326 1.5286 9267 9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .655505 .77372 .45942 .55499 .65935 .55501 .65936 .55499 .65977 .37263 .45925 .55489 .65975	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .1769 .17604 .17607 .17607 .17607 .17601 .17576 .17576 .17626	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17498 .17455 .17484	85 74 44 54 67 72 58 42 34 45 52 59 00 51 26 16 06 19 02
53123 53124 53126 53127 53128 53129 53130 53131 53133 53135 53136 53137 53138 53138	6.123 6.123 6.122 4.589 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 862 862 862	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.452 254.6010 253.452 254.6010 252.826 252.826 252.826 253.399 253.971	2.7934 2.7882 2.7828 2.1621 2.1581 2.1591 1.5393 1.5362 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4056	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65950 .67937 .45942 .55499 .65936 .77365 .55501 .65990 .77365 .55499 .65977 .37263 .45925 .55489 .65955	.17922 .17955 .18024 .18023 .17824 .17831 .17877 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17601 .17576 .17602 .17601 .17576 .17626	.002 .002 .002 .002 .002 .002 .004 .004	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17484 Ad J. Thermal Con	857444546772584234455259 .00 .51 .26 .16 .061902
53123 53124 53126 53127 53128 53129 53130 53131 53133 53135 53136 53137 53138 53139 53140 53141	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.308 3.307 1.979 1.979 1.979 1.979 2.862 862 862	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.789 254.400 253.010 253.452 254.010 252.52.885 252.885 253.399 253.971	2.7934 2.7882 2.7828 2.1621 2.1581 2.1541 2.1499 1.5335 1.5335 1.5326 1.5286 9267 9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287 .9287	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .655505 .77372 .45942 .55499 .65935 .55501 .65936 .55499 .65977 .37263 .45925 .55489 .65975	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .1769 .17604 .17607 .17607 .17607 .17601 .17576 .17576 .17626	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17498 .17455 .17484	85 74 44 54 67 72 58 42 34 45 52 59 00 51 26 16 06 19 02
53123 53124 53126 53127 53128 53129 53130 53131 53133 53135 53136 53137 53138 53139 53140 53141	6.123 6.123 6.122 4.589 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 862 862 862	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.452 254.6010 253.452 254.6010 252.826 252.826 252.826 253.399 253.971	2.7934 2.7882 2.7828 2.1621 2.1581 2.1591 1.5393 1.5362 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4056	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65950 .67937 .45942 .55499 .65936 .77365 .55501 .65990 .77365 .55499 .65977 .37263 .45925 .55489 .65955	.17922 .17955 .18024 .18023 .17824 .17831 .17877 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17601 .17576 .17602 .17601 .17576 .17626	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17498 .17455 .17484 Adj. Thermal Con	85 74 44 54 67 58 52 59 .00 .51 .26 .16 .06 19 02
53123 53124 53126 53127 53128 53129 53130 53131 53133 53135 53136 53137 53139 53140 53141	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.308 3.307 1.979 1.979 1.979 1.979 2.862 862 862 861	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.010 252.825 254.010	2.7934 2.7882 2.7828 2.1621 2.1581 2.1549 1.5335 1.5335 1.5335 1.9286 .9267 .9247 .4084 .4077 .4067 .4056	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .555982 .77372 .45942 .55499 .65935 .55501 .65936 .555499 .65936 .555499 .65955	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .004 .004 .003 .006 .005 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17498 .17455 .17484 Adj. Thermal Con	857444546772584234455259 .00 .51 .26 .16 .061902
53123 53124 53125 53126 53127 53129 53130 53131 53133 53133 53136 53137 53138 53139 53140 53141	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 2.862 862 862 861	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.789 254.400 253.010 253.452 254.010 252.52 254.010 252.52 254.010	2.7934 2.7882 2.7828 2.1621 2.1581 2.1593 1.5362 1.5335 1.5362 1.5335 1.5286 .9267 .9247 .4084 .4077 .4066 Density mol/L	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .655505 .77372 .55499 .65988 .77387 .45935 .55501 .65997 .37365 .55499 .65977 .37263 .45925 .55489 .65955	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17607 .17607 .17607 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17498 .17455 .17484 Ad J. Thermel Con Nom. Temperature 275.0 K W/m.K	85744445677258423445525900512616061902 deviation expceic. percent30
53123 53124 53125 53126 53127 53128 53130 53131 53132 53133 53137 53138 53137 53138 53137 53138 53140 53141	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 862 862 862 861	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.452 254.610 252.526 252.885 253.399 253.971	2.7934 2.7882 2.7828 2.1621 2.1581 2.1593 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4056 Density mol/L	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .555505 .655505 .677372 .45942 .555499 .657387 .45935 .55591 .65990 .77365 .55499 .65977 .37263 .45935 .55489 .65977 .37263 .45935 .55489 .65977	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .004 .004 .005 .004 .007 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17455 .17484 Ad J. Thermal Con Nom. Temperature 275.0 K W/m.K	857444546772584234455259 .00 .51 .26 .16 .061902 ductivity deviation expcaic. percent30 .03
53123 53124 53125 53127 53128 53129 53130 53131 53132 53133 53137 53138 53137 53138 53137 53138 53137 53140 53141	6.123 6.123 6.122 4.589 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 2.862 2.862 2.861 Pressure MPa 65.617 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.6010 252.826 253.839 253.971	2.7934 2.7882 2.7828 2.1621 2.1581 2.1593 1.5393 1.5362 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4056	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65935 .55501 .65930 .77365 .45936 .55499 .659479 .65955	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .002 .004 .003 .003 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17634 .17634 .17622 .17609 .17592 .17681 .17681 .17681 .17517 .17498 .17455 .17498 .17455 .17484 Ad J. Thermel Con Nom. Temperature 275.0 K W/m.K	857444546772584234455259 .00 .51 .26 .16 .061902 ductivity deviation expceic. percent30 .0308
53123 53124 53125 53126 53127 53128 53130 53131 53132 53133 53137 53138 53137 53138 53137 53138 53140 53141	6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 862 862 862 861	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.452 254.610 252.526 252.885 253.399 253.971	2.7934 2.7882 2.7828 2.1621 2.1581 2.1593 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4056 Density mol/L	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .555505 .655505 .677372 .45942 .555499 .657387 .45935 .55591 .65990 .77365 .55499 .65977 .37263 .45935 .55489 .65977 .37263 .45935 .55489 .65977	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .004 .004 .005 .004 .007 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17455 .17484 Ad J. Thermal Con Nom. Temperature 275.0 K W/m.K	857444546772584234455259 .00 .51 .26 .16 .061902 ductivity deviation expcaic. percent30 .03
53123 53124 53126 53127 53128 53129 53130 53131 53133 53135 53136 53137 53138 53138 53140 53141 Run Pt.	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 2.862 2.862 2.861 Pressure MP8 65.619 65.617 65.617 65.615	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.010 252.526 252.885 253.399 253.971	2.7934 2.7882 2.7882 2.1621 2.1581 2.1549 1.5335 1.5362 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4067 .4056	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .555982 .77372 .45942 .55499 .65935 .55501 .65936 .55599 .65936 .55499 .65955 .65955 .65955 .65955	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17634 .17622 .17609 .17592 .17681 .17681 .17636 .17517 .17498 .17455 .17498 .17455 .17484 Ad J. Thermal Con Nom. Temperature 275.0 K W/m.K	85 74 44 54 67 72 58 42 34 45 52 59 .00 .51 .26 .16 .06 19 02 ductivity deviation expcatc. percent
53123 53124 53125 53126 53127 53129 53130 53131 53133 53133 53136 53137 53138 53137 53138 53137 53138 53137 53138 53129 53129	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 2.862 2.862 861 Pressure MPa 65.617 65.617 65.617 65.617 65.615 62.103	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.010 252.526 252.885 253.399 253.971 Tempersture K	2.7934 2.7882 2.7828 2.1621 2.1581 2.1499 1.5335 1.5335 1.5335 1.5226 .9267 .9247 .4067 .4067 .4056 Density mol/L 19.8873 19.8599 19.8206 19.7755 19.1437	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .555982 .77372 .45942 .55499 .65988 .77387 .45935 .55501 .659977 .37365 .55499 .65977 .37263 .45925 .55489 .65955	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17601 .17576 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17498 .17455 .17484 Ad J. Thermel Con Nom. Temperature 275.0 K W/m.K	85 74 44 67 57 58 42 34 45 52 59 00 .51 .26 .16 .06 19 02 deviation expceic. percent 30 .03 08
53123 53124 53125 53126 53127 53128 53129 53130 53131 53132 531335 53137 53138 53137 53138 53137 53138 53137 53139 53140 53141	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 1.979 1.979 6.62 862 861	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.452 254.610 252.526 252.885 253.399 253.399 253.971	2.7934 2.7882 2.7828 2.1621 2.1581 2.1593 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4056 Density mol/L 19.8873 19.8599 19.8206 19.7755 19.1437 19.1257	.9979 .9979	.45949 .555505 .655505 .77372 .45942 .55499 .657387 .45935 .55501 .65990 .7365 .55499 .65977 .37263 .45925 .55489 .65975 .71468 .71468 .97075 .97075 .60111 .71438	.17922 .17955 .18024 .18023 .17824 .17831 .17877 .17756 .17755 .17757 .17766 .17699 .17804 .17679 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K .24126 .24215 .24204 .24266 .23853 .23850	.002 .002 .002 .002 .002 .004 .003 .003 .004 .007 .006 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17598 .17455 .17484 Ad J. Thermal Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24280 .24302 .23975 .23956	857444456772584234455259 .00 .51 .26 .16 .061902 ductivity deviation expceic. percent30 .0308 .11 .09 .05
53123 53124 53125 53126 53127 53129 53130 53131 53133 53133 53136 53137 53138 53137 53138 53137 53138 53137 53138 53129 53129	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 2.862 2.862 861 Pressure MPa 65.617 65.617 65.617 65.617 65.615 62.103	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.010 252.526 252.885 253.399 253.971 Tempersture K	2.7934 2.7882 2.7828 2.1621 2.1581 2.1499 1.5335 1.5335 1.5335 1.5226 .9267 .9247 .4067 .4067 .4056 Density mol/L 19.8873 19.8599 19.8206 19.7755 19.1437	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .555982 .77372 .45942 .55499 .65988 .77387 .45935 .55501 .659977 .37365 .55499 .65977 .37263 .45925 .55489 .65955	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17601 .17576 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17498 .17455 .17484 Ad J. Thermel Con Nom. Temperature 275.0 K W/m.K	857444546772584234455259 .00 .51 .26 .16 .061902 ductivity deviation expceic. percent30 .0308 .11 .09 .05 .16
53123 53124 53125 53127 53128 53129 53130 53132 53133 53133 53137 53138 53137 53138 53137 53138 53137 53129 53120 53	6.123 6.123 6.123 6.122 4.589 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 862 862 861 Pressure MP8 65.617 65.617 65.617 65.617 65.617 65.617 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.2879 253.388 253.789 254.400 253.452 254.6010 252.826 252.826 252.826 253.399 253.971 Tempereture K	2.7934 2.7882 2.7828 2.1621 2.1581 2.1593 1.5362 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4056 Density mol/L 19.8873 19.8599 19.8206 19.7755 19.1437 19.1257 19.1257	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55498 .77377 .45935 .55501 .65930 .77365 .45936 .55499 .65977 .37263 .45925 .55489 .65955	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K	.002 .002 .002 .002 .002 .003 .004 .005 .006 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17634 .17634 .17632 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17498 .17455 .17484 Ad J. Thermel Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24302 .23975 .23966	857444546772584234455259 .00 .51 .26 .16 .061902 ductivity deviation expceic. percent30 .0308 .11 .09 .05 .16
53123 53124 53125 53126 53127 53129 53130 53131 53133 53135 53136 53138 53138 53138 53138 53138 53139 53140 53141 Run Pt. 8 2025 52027 52028 52029 52031 52032	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 2.862 2.862 2.861 Pressure MP8 65.619 65.617 65.615 62.103 62.103 62.103 62.101	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.010 253.452 254.010 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399	2.7934 2.7882 2.7882 2.1621 2.1581 2.1549 1.5335 1.5335 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4067 .4056 Density mol/L 19.8873 19.8599 19.8206 19.7755 19.1437 19.1257 19.0919 19.0461	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .555982 .77372 .45942 .55499 .65935 .55501 .65936 .55599 .65936 .55499 .65955 .65955 .65955 .71468 .97075 1.26586 .60111 .71438 .71438	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K .24126 .24215 .24204 .24266 .23853 .23850 .23890 .23878	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17633 .17634 .17622 .17609 .17592 .17681 .17681 .17636 .17517 .17498 .17455 .17484 Ad J. Thermal Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24302 .24302 .23975 .23956 .23912	85 74 44 54 67 72 58 42 34 45 52 59 .00 .51 .26 .16 .06 19 02 ductivity deviation expceic. percent 30 .03 08 .11 .09 .05
53123 53124 53125 53127 53128 53129 53130 53131 53133 53133 53136 53137 53138 53137 53138 53137 53138 53129 53137 53138 53137 53138 53137 53138 53137 53138 53137 53138 53137 53138 53139 53130 53131 53133 53134 5313 5	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 1.979 6.62 862 861 Pressure MPa 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.010 252.52.885 253.399 253.971 Tempersture K 272.048 272.575 273.346 274.217 272.306 272.663 273.330 274.242 272.948	2.7934 2.7882 2.7828 2.1621 2.1581 2.1499 1.5335 1.5335 1.5335 1.52267 .9247 .4084 .4077 .4067 .4056 Density mol/L 19.8873 19.8599 19.8206 19.7755 19.1437 19.1257 19.1257 19.0919 19.09661 18.4042	.9979 .9979	.45949 .555982 .77372 .55499 .65988 .77377 .45935 .55501 .65990 .77365 .45936 .55499 .65977 .37263 .45925 .55489 .65975 .71468 .71468 .92658 .926888 .926888 .926888 .926888 .926	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K .24126 .24215 .24204 .24266 .23853 .23850 .23878 .23878	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17455 .17484 Ad J. Thermal Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24280 .24302 .23975 .23956 .23912 .23580	85 74 44 67 57 58 42 34 45 52 59 00 16 16 16 16 16 16 16 16
53123 53124 53125 53126 53127 53129 53130 53132 531335 531335 53137 531336 53137 531340 53141 Run Pt. 52026 52027 52027 52028 52031 52034 52035	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 1.979 6.62 862 861 Pressure MP8 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.4010 253.452 254.010 252.885 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399 253.399	2.7934 2.7882 2.7828 2.1621 2.1581 2.1593 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4066 Density mol/L 19.8873 19.8296 19.7755 19.1257 19.1257 19.0919 19.0461 18.4042 18.3616	.9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65988 .77377 .45935 .55501 .65990 .77365 .45936 .55499 .65977 .37263 .45925 .55489 .65955	.17922 .17925 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K .24126 .24215 .24204 .24266 .23853 .23850 .23890 .23878 .23488 .23493	.002 .002 .002 .002 .002 .004 .003 .003 .006 .006 .006 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17517 .17498 .17455 .17455 .17458 .17455 .17458 .17455 .17456 .17517 .17498 .17455 .17456 .17517 .17498 .17455 .17498 .17456 .17498 .17456 .17498 .1	85 74 44 54 67 72 58 42 34 45 52 59 .00 .51 .26 .16 .06 19 02 ductivity deviation expcaic. percent 30 .03 08 .11 .09 .05 .16 .03
53123 53124 53125 53127 53128 53129 53130 53131 53133 53133 53136 53137 53138 53137 53138 53137 53138 53129 53137 53138 53137 53138 53137 53138 53137 53138 53137 53138 53137 53138 53139 53130 53131 53133 53134 5313 5	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 1.979 6.62 862 861 Pressure MPa 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.010 252.52.885 253.399 253.971 Tempersture K 272.048 272.575 273.346 274.217 272.306 272.663 273.330 274.242 272.948	2.7934 2.7882 2.7828 2.1621 2.1581 2.1593 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4066 Density mol/L 19.8873 19.8296 19.7755 19.1257 19.1257 19.0919 19.0461 18.4042 18.3616	.9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65988 .77377 .45935 .55501 .65990 .77365 .45936 .55499 .65977 .37263 .45925 .55489 .65955	.17922 .17925 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K .24126 .24215 .24204 .24266 .23853 .23850 .23890 .23878 .23488 .23493	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17455 .17484 Ad J. Thermal Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24280 .24302 .23975 .23956 .23912 .23580	85 74 44 67 57 58 42 34 45 52 59 00 16 16 16 16 16 16 16 16
53123 53124 53126 53127 53128 531329 53133 53133 53133 53133 53133 53134 1 8 un Pt. 8 2026 52027 52028 52028 52028 52030 52031 52036	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 2.862 2.862 2.861 Pressure MP8 65.617	253.202 253.664 254.160 252.851 253.306 253.72 254.271 252.879 253.388 253.78 254.400 253.010 253.452 254.600 252.526 252.885 253.399 253.971 Tempersture 272.048 272.575 273.340 274.217 272.3663 273.330 274.242 272.468	2.7934 2.7882 2.7882 2.1621 2.1581 2.1549 1.5335 1.5335 1.5299 .9286 .9267 .4084 .4077 .4067 .4056 Density mol/L 19.88599 19.8206 19.7755 19.1437 19.1837 19.1257 19.1019 19.0461 18.4042 18.3389	.9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65935 .55501 .65936 .555997 .37263 .45925 .55499 .65955 Power W/m .49750 .71468 .97075 1.26586 .60111 .71438 .97065 1.26574 .83759	.17922 .17955 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K .24126 .24215 .24204 .24266 .23853 .23850 .23890 .23878 .23488 .23493 .23528	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006 .006 .006 .001 .002 .002 .002 .002	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17634 .17634 .17632 .17609 .17592 .17681 .17681 .17636 .17517 .17498 .17455 .17484 Adj. Thermal Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24302 .23975 .23956 .23912 .23580 .23561	857444546772584234455259 .00 .51 .26 .16 .061902 ductivity deviation expceic. percent30 .0308 .11 .09 .05 .16 .030410 .01
53123 53124 53125 53127 53128 531329 53133 53133 53133 53133 53133 53133 53134 Pt. 8 un Pt. 8 20227 52028 520228 520227 520228 520324 520334 520337	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 1.979 1.979 6.62 862 861 Pressure MP8 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.010 252.526 252.885 253.399 253.971 Tempersture 272.048 273.340 274.217 272.306 274.217 272.306 274.242 272.948 273.830 274.242 272.948 273.809 274.268	2.7934 2.7882 2.7882 2.1621 2.1581 2.1499 1.5335 1.5335 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4067 .4056 Density mol/L 19.8873 19.8599 19.88206 19.7755 19.1257 19.1257 19.0919 19.0461 18.3616 18.3389 17.5811	.9979 .9979	.45949 .55505 .65982 .77372 .55499 .65988 .77377 .45935 .55501 .65936 .555499 .65956 .65955 .77365 .55489 .65955 .71468 .97075 1.26586 .60111 .71438 .97075 1.26574 .83759 1.126574 .83759 1.126559 .71444	.17922 .17925 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K .24126 .24215 .24204 .24215 .24204 .24266 .23853 .23850 .23890 .23878 .23488 .23493 .23528 .23100	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006 .006 .006 .002 .001 .002 .002 .001 .002	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17484 Ad J. Thermal Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24302 .24302 .23975 .23956 .23912 .23580 .23561 .23207	85 74 44 67 58 52 52 59 .00 .51 .26 .16 .06 19 02 ductivity deviation expcetc. percent 30 .03 08 .11 .09 .05 .16 .00 .01
53123 53124 53125 53127 53128 53129 53130 53133 53133 53133 53133 531340 531340 53141 Run Pt. 52026 52027 52029 52029 52031 52034 52037 52038	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 1.979 1.979 1.979 1.979 1.979 6.62 862 861 Pressure MPa 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.452 254.010 252.52.885 253.399 253.971 Tempersture K 272.048 272.575 273.366 274.217 272.306 274.217 272.306 274.242 272.663 274.242 272.948 273.809 274.2665 273.809	2.7934 2.7882 2.7882 2.1621 2.1581 2.1499 1.5335 1.5335 1.5286 .9267 .9247 .4067 .4056 Density mol/L 19.8873 19.8599 19.8206 19.7755 19.1437 19.1257 19.0919 19.0919 19.0961 18.4042 18.3381 17.5571	.9979 .9979	.45949 .555505 .65982 .77372 .55499 .65988 .77387 .45935 .55501 .65997 .37365 .55499 .65977 .37263 .45925 .55489 .65977 .71468 .97658 .976788 .9767888 .976788 .97	.17922 .17955 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17609 .17804 .17779 .17601 .17576 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K .24126 .24215 .24204 .24266 .23853 .23850 .23850 .23890 .23878 .23488 .23493 .23528 .23100 .23132	.002 .002 .002 .002 .002 .004 .003 .006 .006 .006 .006 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17498 .17455 .17484 Ad J. Thermal Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24326 .24326 .24326 .24326 .243912 .23580 .23546 .23561 .23561 .23207 .23217	8574444454677258423445525900512616061902 ductivity deviation expcaic. percent3003081109051601010101010101
53123 53124 53125 53127 53128 531329 53133 53133 53133 53133 53133 53133 53134 Pt. 8 un Pt. 8 20227 52028 520228 520227 520228 520324 520334 520337	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 1.979 1.979 6.62 862 861 Pressure MP8 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.010 253.452 254.010 252.526 252.885 253.399 253.971 Tempersture 272.048 273.340 274.217 272.306 274.217 272.306 274.242 272.948 273.830 274.242 272.948 273.809 274.268	2.7934 2.7882 2.7882 2.1621 2.1581 2.1499 1.5335 1.5335 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4067 .4056 Density mol/L 19.8873 19.8599 19.88206 19.7755 19.1257 19.1257 19.0919 19.0461 18.3616 18.3389 17.5811	.9979 .9979	.45949 .55505 .65982 .77372 .55499 .65988 .77377 .45935 .55501 .65936 .555499 .65956 .65955 .77365 .55489 .65955 .71468 .97075 1.26586 .60111 .71438 .97075 1.26574 .83759 1.126574 .83759 1.126559 .71444	.17922 .17925 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17607 .17601 .17576 .17626 Experimental Thermel Conductivity W/m.K .24126 .24215 .24204 .24215 .24204 .24266 .23853 .23850 .23890 .23878 .23488 .23493 .23528 .23100	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006 .006 .006 .002 .001 .002 .002 .001 .002	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17484 Ad J. Thermal Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24302 .24302 .23975 .23956 .23912 .23580 .23561 .23207	85 74 44 67 58 52 52 59 .00 .51 .26 .16 .06 19 02 ductivity deviation expcetc. percent 30 .03 08 .11 .09 .05 .16 .00 .01
53123 53124 53125 53127 53128 53129 53130 53133 531335 53137 53133 53137 531339 531340 53141 Run Pt. 52026 52027 52028 52034 52034 52038 52038 52038 52038	6.123 6.123 6.123 6.122 4.689 4.688 4.688 3.308 3.307 3.307 1.979 1.979 1.979 1.979 1.979 6.62 862 861 Pressure MPa 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.610 252.52 254.010 252.52 254.010 252.53 273.399 253.971 Tempereture K 272.048 272.575 273.340 274.217 272.306 272.663 273.330 274.2663 273.330 274.268 272.948 273.809 274.268	2.7934 2.7882 2.7828 2.1621 2.1581 2.1593 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4067 .4056 Density mol/L 19.8873 19.8296 19.7755 19.1257 19.1257 19.0919 19.0461 18.3389 17.5511 17.5571	.9979 .9979	.45949 .55505 .65982 .77372 .45942 .55499 .65988 .77377 .45935 .55590 .77365 .45936 .55499 .65977 .37263 .45925 .55489 .65955 .65955 .65955 .65955 .71468 .97075 1.265181 .71438 .97065 1.26559 .83759 1.1297 1.26559 .71448 .83759 .83752	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K .24126 .24215 .24204 .24266 .23850 .23850 .23870 .23870 .23488 .23493 .23528 .23100 .23132 .23138	.002 .002 .002 .002 .002 .004 .003 .003 .006 .006 .006 .006 .006 .006	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17455 .17455 .17455 .17455 .17455 .17456 .24260 .24302 .24302 .24302 .24302 .23975 .23966 .23912 .23561 .23561 .23207 .23217 .23189	85744444546772584234455259 .00 .51 .26 .16 .061902 ductivity deviation expceic. percent30 .0308 .11 .09 .05 .16 .030410 .01 .01 .01 .05
53123 53124 53125 53127 53128 531329 53133 531335 531335 531336 531336 531336 531336 531340 1 0 20027 520028 520028 520028 520037 520037 520037 520037 520037 520037 520039 520040	6.123 6.123 6.123 6.122 4.689 4.688 4.688 4.688 3.308 3.307 1.979 1.979 1.979 1.979 1.979 1.979 6.61 976 862 862 861 Pressure MPB 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.610 252.526 252.885 253.399 253.971 Tempersture 272.048 272.575 273.340 274.217 272.306 274.217 272.306 274.217 272.306 274.242 273.809 274.268 273.809 274.268 273.809 274.268 273.809 274.268	2.7934 2.7882 2.7828 2.1621 2.1581 2.1549 1.5335 1.5335 1.5335 1.5299 .9286 .9267 .4084 .4077 .4067 .4056 Density mol/L 19.8859 19.8206 19.7755 19.1437 19.1257 19.0461 18.4042 18.3389 17.5571 17.55210 17.4986	.9979 .7405 .7405 .7405 .7405 .7405 .7405 .7405 .7386 .7386 .7368	.45949 .55505 .65982 .77372 .45942 .55499 .65949 .77377 .45935 .55501 .65936 .55499 .655497 .37263 .45925 .55489 .65955 Power W/m .49750 .71468 .97075 1.26586 .60111 .71488 .97065 1.26574 .83729 .71444 .83729 .71444 .83722 .71444	.17922 .17955 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K .24126 .24215 .24204 .24266 .23853 .23850 .23850 .23890 .23878 .23488 .23493 .23528 .23100 .23132 .23138	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006 .006 .006 .001 .002 .001 .002 .001 .002 .001 .002	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17634 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17484 Adj. Thermal Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24302 .23975 .23956 .23912 .23580 .23561 .23207 .23177 .23189 .23194	85744444546772584234455259 .00 .51 .26 .16 .061902 ductivity deviation expcelc. percent30 .0308 .11 .09 .05 .16 .030410 .01 .01 .01 .01 .05 .12
53124 53125 53127 53128 53129 53132 53133 53133 53133 53133 53133 53134 Pt. 20227 52028 52027 52028 52031	6.123 6.123 6.123 6.122 4.689 4.688 4.688 4.688 3.308 3.307 1.979 1.979 1.979 1.979 1.979 1.979 6.62 862 861 Pressure MP8 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.610 253.452 254.010 252.526 252.885 253.399 253.971 Tempersture 272.048 273.340 274.217 272.306 274.217 272.306 274.242 272.948 273.830 274.242 272.948 273.809 274.268 273.099 274.268 273.099 274.268	2.7934 2.7882 2.7882 2.1621 2.1581 2.1549 1.5335 1.5335 1.5335 1.5299 .9286 .9267 .9247 .4084 .4077 .4067 .4056 Density mol/L 19.8873 19.8599 19.8206 19.7755 19.1257 19.1257 19.0461 18.3616 18.3389 17.5811 17.5571 17.5571 17.5571	.9979 .9979	.45949 .55505 .65982 .77372 .55499 .65988 .77377 .45935 .55501 .65936 .55599 .65936 .55499 .65955 .55489 .65955 .71468 .97075 1.26586 .60111 .71438 .97065 1.26574 .83759 1.11311 .71444 .83722 1.11311 .71444	.17922 .17955 .18024 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17779 .17607 .17601 .17576 .17626 Experimental Thermel Conductivity W/m.K .24126 .24215 .24204 .24215 .24204 .24266 .23853 .23890 .23878 .23488 .23493 .23528 .23100 .23132 .23132 .23133 .23163 .22755	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006 .006 .006 .001 .002 .001 .002 .001 .002 .001 .002	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17653 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17484 Ad J. Thermal Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24302 .24302 .23975 .23956 .23912 .23580 .23561 .23217 .23189 .23194 .22857	85744444546772584234455259 .00 .51 .26 .16 .061902 ductivity deviation expcatca percent30 .0308 .11 .09 .05 .10 .01 .01 .01 .05 .12 .05
53123 53124 53125 53127 53128 531329 53133 531335 531335 531336 531336 531336 531336 531340 1 0 20027 520028 520028 520028 520037 520037 520037 520037 520037 520037 520039 520040	6.123 6.123 6.123 6.122 4.689 4.688 4.688 4.688 3.308 3.307 1.979 1.979 1.979 1.979 1.979 1.979 6.61 976 862 862 861 Pressure MPB 65.617	253.202 253.664 254.160 252.851 253.306 253.787 254.271 252.879 253.388 253.789 254.400 253.610 253.452 254.010 252.526 252.885 253.399 253.971 Tempersture 272.048 273.340 274.217 272.306 274.217 272.306 274.242 272.948 273.830 274.242 272.948 273.809 274.268 273.099 274.268 273.099 274.268	2.7934 2.7882 2.7828 2.1621 2.1581 2.1549 1.5335 1.5335 1.5335 1.5299 .9286 .9267 .4084 .4077 .4067 .4056 Density mol/L 19.8859 19.8206 19.7755 19.1437 19.1257 19.0461 18.4042 18.3389 17.5571 17.55210 17.4986	.9979 .7405 .7405 .7405 .7405 .7405 .7405 .7405 .7386 .7386 .7368	.45949 .55505 .65982 .77372 .45942 .55499 .65949 .77377 .45935 .55501 .65936 .55499 .655497 .37263 .45925 .55489 .65955 Power W/m .49750 .71468 .97075 1.26586 .60111 .71488 .97065 1.26574 .83729 .71444 .83729 .71444 .83722 .71444	.17922 .17955 .18023 .17824 .17831 .17871 .17917 .17756 .17755 .17757 .17766 .17699 .17804 .17607 .17601 .17576 .17626 Experimental Thermal Conductivity W/m.K .24126 .24215 .24204 .24266 .23853 .23850 .23850 .23890 .23878 .23488 .23493 .23528 .23100 .23132 .23138	.002 .002 .002 .002 .002 .004 .004 .005 .006 .006 .006 .006 .006 .006 .001 .002 .001 .002 .001 .002 .001 .002	.17823 .17840 .17893 .17874 .17722 .17713 .17735 .17764 .17634 .17634 .17622 .17609 .17592 .17681 .17636 .17517 .17498 .17455 .17484 Adj. Thermal Con Nom. Temperature 275.0 K W/m.K .24261 .24326 .24302 .23975 .23956 .23912 .23580 .23561 .23207 .23177 .23189 .23194	85744444546772584234455259 .00 .51 .26 .16 .061902 ductivity deviation expcelc. percent30 .0308 .11 .09 .05 .16 .030410 .01 .01 .01 .01 .05 .12

52043	51.612	273.921	16.7268	.7350	1.11276	.22790	.001	. 22838	.07
52044	51.611	274.372	16.7058	.7348	1.26558	.22793	.001	.22821	• 0 4
52045	48.126	272.730	15.9452	.7335	.71409	.22426	.002	.22526	.18
52045	48.125	273.137	15.9266	7333	.83696	.22404	.001	.22486	.03
					1.11248	.22464	.001	.22510	.21
52047	48.124	273.948	15.8897	.7332					
52048	48.122	274.406	15.8687	•7330	1.26524	.22447	.001	.22473	•09
52049	44.583	272.690	15.0625	.7317	.71416	.22029	.001	.22130	•02
52050	44.582	273.142	15.0424	.7316	.83696	. 22056	.001	• 22137	• 0 9
52051	44.580	274.061	15.0020	.7314	1.11257	.22085	.001	.22126	•12
52052	44.580	274.515	14.9823	.7313	1.26505	.22088	.001	.22109	.08
52053	41.045	272.392	14.1554	• 72 99	.60071	.21635	.002	.21748	11
52054	41.044	272.751	14.1400	.7298	.71397	.21680	.002	•21777	•06
52055	41.042	273.616	14.1035	.7297	.96972	•21736	.001	.21796	•21
52056	41.041	274.051	14.0851	.7295	1.11255	.21724	.001	.21765	.10
52057	37.572	272.435	13.2131	.7282	.60072	.21342	.002	.21452	.14
52058	37.571	272.731	13.2009	.7280	.71406	.21344	.002	.21442	•12
52059	37.570	273.554	13.1636	.7279	.96982	.21390	.001	.21447	.21
52060	37.569	274.132	13.1448	.7278	1.11246	.21401	.001	.21438	. 20
52061	33.985	272.606	12.1940	.7264	.60049	. 20903	.002	.21005	27
	33.984	272.856	12.1838	.7263	•71397	20960	.002	.21051	04
52062									
52063	33.983	273.823	12.1477	•7261	.96968	.20990	.001	.21040	03
52064	33.983	274.217	12.1328	• 7260	1.11255	.21036	.001	.21069	•13
52065	30.464	272.508	11.1601	.7246	.60087	.20602	• 002	•20708	05
52066	30.463	273.015	11.1421	•7245	.71420	.20644	•002	.20728	•08
52067	30.463	273.988	11.1078	.7244	•97000	.20529	.001	.20672	14
52068	30.462	274.350	11.0946	•7242	1.11332	.20702	.001	.20729	.16
52069	27.070	272.635	10.1129	• 7230	•60099	. 20235	.003	.20335	26
52070	27.070	273.006	10.1007	•7228	.71425	.20324	.002	.20408	•12
52071	27.068	273.951	10.0697	•7227	.97040	.20311	.001	• 20355	09
52072	27.067	274.414	10.0544	.7225	1.11349	.20375	.001	.20400	•15
52073	23.529	272.677	8.9761	.7212	.60109	.20002	.002	.20100	• 25
52074	23.52R	273.105	8.9631	.7211	.71425	.19960	.002	.20040	03
52075	23.527	274.059	8.9349	.7210	.97037	.19994	.002	.20034	02
52076	23.527	274.627	8.9181	.7208	1.11294	.20031	.001	.20047	.07
52077	19.963	272.318	7.7901	.7195	.49753	.19608	.003	.19720	.02
	19.963								
52078		272.725	7.7792	•7194	.60094	•19637	•002	.19732	•10
52079	19.962	273.620	7.7558	.7192	.83737	•19637	•002	•19695	06
52080	19.960	274.175	7.7409	.7191	.97027	.19664	.001	.19699	02
52081	16.435	272.438	6.5496	.7177	• 49747	.19283	.003	• 19390	.01
52082	16.435	272.804	6.5412	•7176	.60093	.19286	.002	.19378	05
52083	16.434	273.801	6.5188	•7175	.83737	.19370	•002	.19420	.20
52084	16.434	274.273	6.5083	.7174	.97039	•19391	.001	.19421	• 22
52085	13.093	272.528	5.3238	.7161	.49757	.19012	.002	•19115	.16
52086	13.092	272.973	5.3153	.7160	.60087	•19017	.002	•19101	•10
52087	13.091	273.858	5.2987	.7158	.83755	.19032	.002	.19079	.01
52088	13.090	274.498	5.2867	.7157	.97050	.19074	.002	.19095	
									• 1 1
		2110470							•11
		2110475		V. 25.		Experimental		Adj. Thermal Cor	
		2174475		V. 25.		Experimental Thermal		Adj. Thermal Cor Nom. Temperature	ductivity
Run Pt.	Pressure	Temperature			Power	Thermal		Nom. Temperature	nductivity deviation
Run Pt.		Temperature	Density	para	Power W/m	Thermal Conductivity	STAT	Nom. Temperature 275.0 K	ductivity deviation expcaic.
Run Pt.	Pressure MPa				Power W/m	Thermal		Nom. Temperature	nductivity deviation
	MPa	Temperature K	Density moi/L	para fraction	W/m	Thermal Conductivity W/m.K	STAT	Nom. Temperature 275.0 K W/m.K	ductivity deviation expcalc. percent
52001	MPa 12.400	Temperature K 272.024	Density mol/L 5.0724	para fraction .9979	₩/m •49695	Thermal Conductivity W/m.K	STAT •002	Nom. Temperature 275.0 K W/m.K .19419	ductivity deviation expcalc. percent
52001 52002	MPa 12.400 12.398	Temperature K 272.024 272.454	Density mol/L 5.0724 5.0642	para fraction .9979 .9979	W/m •49695 •59991	Thermal Conductivity W/m.K .19311 .19167	.002 .002	Nom. Temperature 275.0 K W/m.K .19419 .19259	ductivity deviation expcalc. percent .18 64
52001 52002 52003	MPa 12.400 12.398 12.398	Temperature K 272.024 272.454 272.968	Density mol/L 5.0724 5.0642 5.0551	para fraction .9979 .9979	W/m .49695 .59991 .71325	Thermal Conductivity W/m.K •19311 •19167 •19341	.002 .002 .002	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415	ductivity deviation expcaic. percent .1864 .18
52001 52002 52003 52004	MPa 12.400 12.398 12.398 12.398	Temperature K 272.024 272.454 272.968 273.473	Density mol/L 5.0724 5.0642 5.0551 5.0462	para fraction .9979 .9979 .9979	.49695 .59991 .71325 .83616	Thermal Conductivity W/m.K .19311 .19167 .19341 .19325	.002 .002 .002	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380	ductivity deviation expcaic. percent .1864 .18
52001 52002 52003 52004 52005	MPa 12.400 12.398 12.398 12.398 10.365	Temperature K 272.024 272.454 272.968 273.473 272.095	Density mol/L 5.0724 5.0651 5.0551 5.0462 4.2925	para fraction .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652	Thermal Conductivity W/m.K •19311 •19167 •19341 •19325 •19059	.002 .002 .002 .002	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164	ductivity deviation expcalc. percent .1864 .18 .0120
52001 52002 52003 52004 52005 52006	MPa 12.400 12.398 12.398 12.398 10.365 10.365	Temperature K 272.024 272.454 272.454 273.473 272.095 272.535	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2925 4.2857	para fraction .9979 .9979 .9979 .9979	W/m -49695 -59991 -71325 -83616 -49652 -59982	Thermal Conductivity W/m.K .19311 .19167 .19341 .19325 .19059 .19059	.002 .002 .002 .002 .003	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148	nductivity deviation expcaic. percent .1864 .18 .012028
52001 52002 52003 52004 52005 52006 52007	MPa 12.400 12.398 12.398 12.398 10.365 10.365	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2957 4.2857	para fraction .9979 .9979 .9979 .9979 .9979	W/m -49695 -59991 -71325 -83616 -49652 -59982 -71285	Thermal Conductivity W/m.K .19311 .19167 .19341 .19325 .19059 .19059 .19115	.002 .002 .002 .002 .003 .003	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19186	.18 64 .18 .01 20 28
52001 52002 52003 52004 52005 52006 52007 52008	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2957 4.2857 4.2784	Para fraction .9979 .9979 .9979 .9979 .9979	W/m -49695 -59991 -71325 -83616 -49652 -59982 -71285 -83565	Thermal Conductivity W/m.K .19311 .19167 .19341 .19325 .19059 .19059 .19115 .19121	.002 .002 .002 .002 .003 .003 .003	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19175	nductivity deviation expcaic. percent .1864 .18 .0120280712
52001 52002 52003 52004 52005 52006 52007 52008 52009	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520 272.134	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2925 4.2857 4.2784 4.2709 3.3986	para fraction .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .59982 .71285 .83565 .49638	Thermal Conductivity W/m.K .19311 .19167 .19341 .19325 .19059 .19059 .1915 .1915	STAT .002 .002 .002 .002 .003 .003 .002 .002	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19186 .19175 .18958	nductivity deviation expcaic. percent .1864 .18 .012028071223
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 10.365 8.093 8.092	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.025 273.025	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2925 4.2857 4.2784 4.2784 4.2789 3.3986 3.3928	para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .59982 .71285 .83565 .49638 .59954	Thermal Conductivity W/m.K 19311 19167 19341 19325 19059 19059 19115 19121 18855 19882	.002 .002 .002 .003 .003 .003 .002	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19186 .19175 .18958 .18969	.18 64 .01 20 28 07 12 23
52001 52002 52003 52004 52005 52006 52007 52008 52009 52009 52010 52011	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093 8.092 8.092	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.057	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2857 4.2857 4.2784 4.2709 3.3986 3.3928 3.3928	Para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .59982 .71285 .83565 .49638 .59954 .71305	Thermal Conductivity W/m.K .19311 .19167 .19341 .19325 .19059 .19059 .19059 .19115 .19121 .18855 .13882 .18825	.002 .002 .002 .002 .003 .003 .002 .002	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19175 .18958 .18969 .1895	.18 64 .18 .01 20 28 07 12 23 17
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010 52011 52012	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093 8.092 8.092 8.092	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.025 273.026 272.134 272.602 273.057 273.589	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2957 4.2857 4.2709 3.3986 3.3928 3.3972 3.3872	Para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .59982 .71285 .83565 .49638 .59736 .71305 .83615	Thermal Conductivity w/m.K .19311 .19167 .19341 .19325 .19059 .19059 .19115 .19121 .18855 .18882 .18825 .18918	.002 .002 .002 .003 .003 .002 .002 .003	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19186 .19186 .19175 .18958 .18969 .18969	.18 64 .18 .01 20 28 07 12 23 17
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010 52011 52011 52013	MPa 12.400 12.398 12.398 10.365 10.365 10.365 10.365 8.093 8.092 8.092 8.092 6.030	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.057 273.589 272.139	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2925 4.285 4.2709 3.3986 3.3928 3.3872 3.3807 2.5650	para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .71285 .83565 .49638 .59954 .71305 .83615 .49698	Thermal Conductivity W/m.K .19311 .19167 .19341 .19325 .19059 .19059 .19059 .19115 .19121 .18855 .13882 .18825	.002 .002 .002 .002 .003 .003 .002 .002	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19175 .18958 .18969 .1895	.18 64 .18 .01 20 28 07 12 23 17
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010 52011 52011 52013 52014	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093 8.092 8.092 8.092 6.030 6.030	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.057 273.559 272.139 272.603	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2957 4.2857 4.2709 3.3986 3.3928 3.3972 3.3872	Para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .59982 .71285 .83565 .49638 .59736 .71305 .83615	Thermal Conductivity w/m.K .19311 .19167 .19341 .19325 .19059 .19059 .19115 .19121 .18855 .18882 .18825 .18918	.002 .002 .002 .003 .003 .002 .002 .003	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19186 .19186 .19175 .18958 .18969 .18969	.18 64 .18 .01 20 28 07 12 23 17
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010 52011 52011 52013	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093 8.092 8.092 8.092 6.030 6.030 6.029	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.057 273.589 272.139	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2925 4.285 4.2709 3.3986 3.3928 3.3872 3.3807 2.5650	para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .71285 .83565 .49638 .59954 .71305 .83615 .49698	Thermal Conductivity W/m.K 19311 19167 19341 19325 19059 19059 19015 19121 18855 13882 18825 18825	STAT .002 .002 .002 .003 .003 .002 .003 .003	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19186 .19175 .18958 .18969 .18969 .18799	ductivity deviation expcaic. percent .1864 .18 .01202807122317561613
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010 52011 52011 52013 52014	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093 8.092 8.092 8.092 6.030 6.030	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.057 273.559 272.139 272.603	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2925 4.2857 4.2709 3.3986 3.3928 3.3872 3.3872 2.5650	para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .59982 .71285 .83565 .49638 .59954 .71305 .849698 .60034	Thermal Conductivity W/m.K 19311 19167 19341 19325 19059 19059 19121 18855 19882 18825 18918 18696 18675	STAT .002 .002 .002 .003 .003 .002 .003 .003	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19175 .18958 .18969 .18969 .18969 .18799 .18761	.18 64 .18 .01 20 28 07 12 23 17 56 16 13
52001 52002 52003 52004 52005 52006 52007 52009 52010 52011 52011 52013 52014 52015	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093 8.092 8.092 8.092 6.030 6.030 6.029	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.057 273.589 272.603 273.153	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2957 4.2857 4.2709 3.3980 3.3928 3.3872 3.3807 2.56508 2.5554	Para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .71285 .83565 .49638 .59954 .71305 .83615 .49698 .60034 .71346 .83655	Thermal Conductivity W/m.K .19311 .19167 .19341 .19325 .19059 .19059 .19115 .19121 .18855 .18882 .18825 .18898 .18675 .18714 .18724	STAT .002 .002 .002 .003 .003 .002 .002 .00	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19175 .18958 .18969 .18969 .18969 .18969 .18761 .18771	nductivity deviation expcaic. percent .1864 .18 .01202807122317561613322126
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010 52011 52012 52013 52014 52015 52016	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093 8.092 8.092 8.092 6.030 6.030 6.039 6.029	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.557 273.589 272.139 272.603 273.153 273.685 273.685	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2925 4.2784 4.2709 3.3986 3.3928 3.3877 2.5650 2.5550 2.5550 1.6750	Para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .59982 .71285 .83565 .49638 .59954 .71305 .83615 .49698 .60034 .71346 .83655 .49698	Thermal Conductivity W/m.K 19311 19167 19341 19325 19059 19059 19015 19121 18855 19882 18865 18885 18885 18882 18871 18696 18675 18714	STAT .002 .002 .002 .003 .003 .003 .003 .00	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19175 .18958 .18969 .18969 .18799 .18761 .18771 .18590	nductivity deviation expcaic. percent .18 .0120280712231756161332212626
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010 52011 52012 52013 52014 52015 52016 52017	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093 8.092 8.092 8.092 6.030 6.030 6.029 6.029 3.888 3.888	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.557 273.589 272.139 272.603 273.153 273.685 272.391 272.939	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2925 4.2825 4.2709 3.3986 3.3928 3.3872 2.5650 2.5650 2.5554 2.5556	para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .59982 .71285 .49638 .59954 .71305 .83615 .49698 .60034 .71346	Thermal Conductivity W/m.K 19311 19167 19341 19325 19059 19059 19121 18855 19121 18855 18882 18825 18818 18696 18675 18714 18724 18496	STAT .002 .002 .002 .003 .003 .003 .002 .002	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19186 .19175 .18958 .18969 .18969 .18969 .18799 .18761 .18781 .18771 .18590 .18629	nductivity deviation expcaic. percent .1864 .18 .012028071223175616133221262604
52001 52002 52003 52004 52005 52006 52007 52009 52010 52011 52012 52013 52014 52015 52016 52017 52018	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.092 8.092 8.092 8.092 8.092 8.092 8.092 8.092 8.092 8.092 8.092 8.098 8.098	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.057 273.589 272.139 272.603 273.153 273.685 272.939 272.939 272.939	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2857 4.2857 4.2709 3.3982 3.3872 3.3807 2.55608 2.5554 2.55560 1.6755 1.6684	Para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .59982 .71285 .83565 .49638 .59954 .71305 .83615 .49698 .60034 .71346 .83655 .49698	Thermal Conductivity W/m.K 19311 19167 19341 19325 19059 19059 19115 19121 18855 18825 18918 18696 18675 18714 18724 18724 18555 18555	STAT .002 .002 .002 .003 .002 .003 .002 .002	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19175 .18958 .18969 .18895 .18969 .18799 .18761 .18771 .18590 .18637	nductivity deviation expcalc. percent .1864 .18 .012028071223175616133221262604 .00
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010 52011 52012 52014 52015 52016 52017 52018 52019 52020	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093 8.092 8.092 6.030 6.030 6.030 6.029 3.888 3.888 3.888	Temperature K 272.024 272.454 272.968 273.473 272.095 273.025 273.025 273.520 272.139 272.602 273.153 273.685 272.391 272.391 272.939	Density mol/L 5.07242 5.0642 4.29257 4.28257 4.2784 4.2789 3.3928 3.3928 3.3928 3.3928 3.3928 3.395550 2.55554 2.55554 2.55554 1.6646	Para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49698 .71285 .83565 .49638 .59954 .71305 .83615 .49698 .60034 .71346 .83655	Thermal Conductivity W/m.K .19311 .19167 .19341 .19325 .19059 .19059 .19115 .19115 .19121 .18855 .18882 .18825 .18818 .18675 .18714 .18724 .18496 .18555 .18581 .18596	STAT .002 .002 .002 .003 .003 .002 .002 .00	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19175 .18958 .18969 .18799 .18761 .18781 .18771 .18590 .18629 .18637	ductivity deviation exp-calc. percent .1864 .18 .012028071223175616133221262604 .0003
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010 52011 52012 52013 52014 52015 52016 52017 52018 52019 52020 52021	MP8 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093 8.092 8.092 8.092 6.030 6.030 6.030 6.029 3.888 3.888 3.888 3.888	Temperature K 272.024 272.454 272.468 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.589 272.139 272.603 273.153 273.685 273.685 272.939 272.939 273.455 273.455 274.059 272.003	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2925 4.2825 4.2784 4.2709 3.3986 3.3972 3.3807 2.5650 2.5506 1.6750 1.6750 1.6646 1.6646	Para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .59982 .71285 .83565 .49638 .59954 .71305 .83615 .49698 .60034 .71346 .83655 .49698 .60031 .71361	Thermal Conductivity W/m.K 19311 19167 19341 19325 19059 19059 19059 19151 19121 18855 13882 18825 18825 18825 18871 18696 18675 18714 18724 18724 18496 18555 18558 18558	STAT .002 .002 .003 .003 .003 .002 .002 .00	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19175 .18958 .18969 .18969 .18791 .18761 .18771 .18590 .18629 .18637 .18630 .18412	nductivity deviation expcaic. percent .18 .012028071223175616133221262604 .000327
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010 52011 52012 52013 52014 52015 52016 52017 52018 52019 52020 52021	MPa 12.400 12.398 12.398 12.398 10.365 10.365 10.365 10.365 8.092	Temperature K 272.024 272.454 272.968 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.557 273.589 272.139 272.603 273.153 273.685 272.391 272.934 272.939 273.455 274.059 272.003 272.426	Density mol/L 5.0724 5.0642 5.0651 5.0462 4.2925 4.2825 4.2709 3.3986 3.3928 3.3877 2.5650 2.5550 1.6715 1.6684 1.66684 1.66023 .8009	Para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .71285 .83565 .49638 .59954 .71305 .83615 .49698 .60031 .71361 .83650 .49698 .60031 .71361	Thermal Conductivity W/m.K .19311 .19167 .19341 .19325 .19059 .19121 .18855 .1882 .18855 .18818 .18696 .18675 .18714 .18724 .18496 .18555 .18581 .18596	STAT .002 .002 .002 .003 .003 .003 .003 .00	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19175 .18958 .18969 .18895 .18969 .18799 .18761 .18771 .18590 .18629 .18637 .18630 .18412 .18406	ductivity deviation expcaic. percent .1864 .18 .012028071223175616133221262604 .00032730
52001 52002 52003 52004 52005 52006 52007 52008 52009 52010 52011 52012 52013 52014 52015 52016 52017 52018 52019 52020 52021	MP8 12.400 12.398 12.398 12.398 10.365 10.365 10.365 8.093 8.092 8.092 8.092 6.030 6.030 6.030 6.029 3.888 3.888 3.888 3.888	Temperature K 272.024 272.454 272.468 273.473 272.095 272.535 273.025 273.520 272.134 272.602 273.589 272.139 272.603 273.153 273.685 273.685 272.939 272.939 273.455 273.455 274.059 272.003	Density mol/L 5.0724 5.0642 5.0551 5.0462 4.2925 4.2825 4.2784 4.2709 3.3986 3.3972 3.3807 2.5650 2.5506 1.6750 1.6750 1.6646 1.6646	Para fraction .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979 .9979	W/m .49695 .59991 .71325 .83616 .49652 .59982 .71285 .83565 .49638 .59954 .71305 .83615 .49698 .60034 .71346 .83655 .49698 .60031 .71361	Thermal Conductivity W/m.K 19311 19167 19341 19325 19059 19059 19059 19151 19121 18855 13882 18825 18825 18825 18871 18696 18675 18714 18724 18724 18496 18555 18558 18558	STAT .002 .002 .003 .003 .003 .002 .002 .00	Nom. Temperature 275.0 K W/m.K .19419 .19259 .19415 .19380 .19164 .19148 .19186 .19175 .18958 .18969 .18969 .18791 .18761 .18771 .18590 .18629 .18637 .18630 .18412	nductivity deviation expcaic. percent .18 .012028071223175616133221262604 .000327

3. Methane Results

A total of 900 points are given in Table 3. The results are reported in [9]. The computer programs developed for the thermal conductivity surface of methane are shown below. The equation of state used for methane is given in [8].

```
FUNCTION CH4TC (RHO, T)
  DIMENSION A(4),B(9)
  COEF FROM TCO21 AND MINIMS, 31 MAR 84 2ND PASS
  DATA A/-.8863333440E-02
     .2419639784E-03 ,-.6997019196E-06 , .1224609018E-08/
  DATA B/
1 .2773027550E-02 ,-.2477683184E-05 ,-.1458682198E+02
1 ,-.1982760371E-01 , .1009665010E-03 ,-.2595460306E-07
1 , .3691505315E+01 , .6857505926E-02 ,-.3009401784E-04/
TERM1=A(1)+A(2)*T+A(3)*T**2+A(4)*T**3
  TERM2 = (B(1) + B(2) * T) * RHO
  BEE=EXP(B(3)+B(4)*T+B(5)*T**2+B(6)*T**3)
  ENN=B(7)+B(8)*T+B(9)*T**2
  TERM3=BEE*RHO**ENN
  CH4TC=TERM1+TERM2+TERM3+CH4CRIT(RHO,T)
  RETURN
  END
  FUNCTION CH4CRIT(RHO, TEMP)
  DIMENSION C(6)
  COEF FROM TCO21 AND MINIMS, 31 MAR 84 2ND PASS
  DATA C/ .2054937228E+00
 1 ,-.1850000000E+03 , .9517540680E-02 ,-.2944481220E-04  
1 ,-.2244399588E+00 , .1720710404E+00 /
  DATA (TC=190.555), (RHOC=10.0)
  T=TEMP
  DEN=RHO
  IF(T.LT.TC) T=TC+(TC-T)
  IF(T.LT.377.991) GO TO 4
  CH4CRIT=0.
  RETURN
4 CONTINUE
  AMPL=C(1)/(T+C(2))+C(3)+C(4)*T
  DELRHO = DEN - RHOC
  X1=C(5)*DELRHO
  IF(DEN.GT.10.0) X1=C(6)*DELRHO
  CH4CRIT=AMPL*EXP(-X1**2)
  RETURN
  END
```

Table 3. The Thermal Conductivity of Methane

					Experimental		Adjusted Thermal	Conductivity
					Thermal		at a nominal	deviation
Run Pt.	Pressure	Temperature	Density		Conductivity	STAT		from correlation
	нРa	К	mol/L	W/m	W/m.K		W/m.K	percent
70028	.561	111.827	25.3519	.99832	.18427	0.000	•18371	50
70027	•556	111.655	26.3671		.18476	0.000	.18425	36
70026	.551	111.255	26.4032	.83558	.18475	.001	.18436	68
70025	.546	110.983	26.4275	.75983	.18512	.001	.18482	69
70024	11.644	111.762	26.9517		.19681	.001	.19623	14 42
70023 70022	11.641 11.635	111.363 111.215	26.9838 26.9955	.91369 .83522	.19679 .19754	.001	•19634 •19714	13
70022	11.630	110.985		.75969	19758	.001	.19725	26
70020	22.698	111.768		1.08182	.20704	.001	. 20643	36
70019	22.693	111.688	27.4569	.99618	.20762	0.000	.20703	12
70018	22.688	111.301	27.4951	.91297	.20775	0.000	.20730	29
70017 70016	22.682 34.119	111.173 111.613	27.5043	.83448 1.08073	.20846 .21681	0.000	• 20805 • 21622	02 52
70015	34.117	111.472	27.9339	.99554	.21779	0.000	.21725	14
70014	34.112	111.231	27.9499	.91203	.21761	.001	.21716	35
70013	34.109	110.997	27.9655	.83355	.21796	0.000	.21759	31
70012	44.939	111.508		1.07935	.22569	0.000	•22511	36
70011	44.932	111.347	28.3092	.99349	.22602	0.000	.22550 .22582	29 30
70010 70009	44.926 44.920	111.101 110.863		.83233	• 22624 • 22667	.001	• 22634	22
70008	56.744	111.433		1.07906	.23494	.001	.23437	.07
70007	56.740	111.181	28.6535	.99259	.23517	.001	.23470	.06
70006	56.735	110.963	28.6757		.23542	.001	.23503	.08
70005	56.726	110.745	28.6879	.83168	.23554	.001	.23524	.04
70004 70003	68.635 68.639	111.218 111.104	28.9658	.99131	.24325 .24368	.001	•24275 •24322	•38 •52
70002	68.647	110.894	28.9771	.90959	.24381	.001	. 24344	.49
70001	68.659	110.631	28.9911	.83064	.24405	.001	.24379	.49
					Experimental Thermal		Adjusted Thermal	deviation
Run Pt.	Pressure	Temperature	Oensity	Power	Conductivity	STAT	Temperature of 135 K	from correlation
	MPs	K	mol/L	W/m	₩/m.K	3121	W/m.K	percent
73028	.316	134.645	• 30 21	.05668	.01483	.003	.01487	•16
73027 73026	.316 .315	134.119 133.606	.3035	.04600	.01475 .01475	.005	•01486 •01492	•02 •43
73025	.314	133.127	.3048	.02801	.01471	.009	.01494	.54
69028	.778	135.369	24.0430	.88406	.15136	.001	.15128	. 28
69027	.772	135.054	24.0767		.15181	.001	.15180	.27
69026	.761	134.663	24.1181	.71438	.15203	.001	.15210	.04
69025 69024	.745 11.718	134.383 135.395	24.1468	.63671 .97511	•15245 •16643	.001 .001	•15258 •16634	• 06 • 35
69023	11.715	135.072	24.9780	.88321	.16687	.001	•16685	• 36
69022	11.709	134.724	25.0086	.79593	.16708	.001	.16715	• 2 2
69021	11.694	134.433	25.0335	.71378	.16755	.001	.16768	• 28
69020	22.964	135.255	25.6876 25.7189	.97428	.17951	.001	.17945	. 25
69019 69018	22.961	134.855 134.595	25.7390		.18009	.301		
69017	22.959	2378373		.79537	.17996		•18013 •18006	. 30
69016		134.300		.79537 .71306	•17996 •18038	.001	.18006	. 06
69015	34.181	134.300 135.304	25.7620	.71306 1.06951	.17996 .18038 .19082		.18006 .18056 .19074	.06 .09 .16
	34.181 34.180	135.304 134.983	25.7620 26.2824 26.3051	.71306 1.06951 .97323	.18038 .19082 .19106	.001 .001 .001	.18006 .18056 .19074 .19106	.06 .09 .16 .09
69014	34.181 34.180 34.177	135.304 134.983 134.717	25.7620 26.2824 26.3051 26.3239	.71306 1.06951 .97323 .88175	.18038 .19082 .19106 .19153	.001 .001 .001 .301	.18006 .18056 .19074 .19106 .19161	.06 .09 .16 .09
69013	34.181 34.180 34.177 34.172	135.304 134.983 134.717 134.482	25.7620 26.2824 26.3051 26.3239 26.3403	.71306 1.06951 .97323 .88175 .79479	.18038 .19082 .19106 .19153 .19175	.001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189	.06 .09 .16 .09 .18
	34.181 34.180 34.177	135.304 134.983 134.717	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156	.71306 1.06951 .97323 .88175	.18038 .19082 .19106 .19153 .19175 .20144	.001 .001 .001 .301	.18006 .18056 .19074 .19106 .19161 .19189 .20142	.06 .09 .16 .09 .18 .16
69013 69012 69011 69010	34.181 34.180 34.177 34.172 45.585 45.577 45.574	135.304 134.983 134.717 134.482 135.055 134.801 134.607	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 25.8444	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224	.001 .001 .001 .001 .001 .001 0.000 .001	.18006 .18056 .19074 .19106 .19161 .19189	.06 .09 .16 .09 .18
69013 69012 69011 69010 69009	34.181 34.177 34.177 34.172 45.585 45.577 45.574 45.564	135.304 134.983 134.717 134.482 135.055 134.801 134.607 134.390	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 25.8444 26.8581	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235	.06 .09 .16 .09 .18 .16 .07 .06
69013 69012 69011 69010 69009 69008	34.181 34.180 34.177 34.172 45.585 45.577 45.574 45.564 56.761	135.304 134.983 134.717 134.482 135.055 134.801 134.607 134.390	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 25.8444 26.8581 27.2397	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224 .20225 .21085	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242	.06 .09 .16 .09 .18 .16 .07 .06 .22
69013 69012 69011 69010 69009 69008 69007	34.180 34.177 34.172 45.585 45.577 45.574 45.564 56.761	135.304 134.983 134.717 134.482 135.055 134.801 134.607 134.390 135.242	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 25.8444 26.8581 27.2397 27.2590	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753 1.06714	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224 .20225 .21085	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21078	.06 .09 .16 .09 .18 .16 .07 .06 .22 .12
69013 69012 69011 69010 69009 69008	34.181 34.180 34.177 34.172 45.585 45.577 45.574 45.564 56.761	135.304 134.983 134.717 134.482 135.055 134.801 134.607 134.390	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 25.8444 26.8581 27.2397 27.2590 27.2706	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224 .20225 .21085 .21114 .21186	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242	.06 .09 .18 .16 .07 .06 .22 .12 .20
69013 69012 69011 69010 69009 69008 69007 69006 69005 69004	34.180 34.177 34.172 45.585 45.577 45.574 45.564 56.761 56.753 56.735 67.925	135.304 134.983 134.717 134.482 135.055 134.801 134.507 134.390 135.242 134.920 134.722 134.608	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 25.8444 26.8581 27.2397 27.2590 27.2706	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753 1.06714 .97144 .88007	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224 .20225 .21085 .21114 .21186 .21176	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21078	.06 .09 .16 .09 .18 .16 .07 .06 .22 .12
6 9013 6 9012 6 9011 6 9010 6 9009 6 9008 6 9007 6 9006 6 9005 6 9004 6 9003	34.180 34.177 34.172 45.585 45.577 45.574 45.564 56.761 56.763 56.743 56.735 67.925	135.304 134.983 134.482 135.055 134.801 134.007 134.390 135.242 134.920 134.722 134.408 135.053 134.764	25.7620 26.2824 26.3051 26.3239 26.8156 26.8319 25.8444 26.8581 27.2397 27.2590 27.2706 27.2894 27.6305 27.6468	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753 1.06714 .97144 .88007 1.16634	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224 .20225 .21085 .21114 .21186 .21176 .21996	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21078 .21116 .21194 .21194	.06 .09 .16 .09 .18 .16 .07 .06 .22 .12 .20 .18 .43 .23
69013 69012 69011 69010 69009 69008 69007 69006 69005 69004 69003 69002	34.180 34.177 34.177 34.172 45.585 45.577 45.574 45.564 56.761 56.763 56.763 56.763 56.763 56.7925 67.925	135.304 134.983 134.482 135.055 134.801 134.607 134.390 135.242 134.920 134.722 134.408 135.053 134.764 134.496	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 25.8444 26.8581 27.2397 27.2590 27.2706 27.2894 27.6305 27.6468 27.6620	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .15753 1.06714 .97144 .88007 1.16634 1.06592	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224 .20225 .21085 .21114 .21186 .21176 .21996 .22006 .22036	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21078 .21116 .21194 .21193 .21994	.06 .09 .18 .16 .07 .06 .22 .12 .20 .18 .43 .23
6 9013 6 9012 6 9011 6 9010 6 9009 6 9008 6 9007 6 9006 6 9005 6 9004 6 9003	34.180 34.177 34.172 45.585 45.577 45.574 45.564 56.761 56.763 56.743 56.735 67.925	135.304 134.983 134.482 135.055 134.801 134.007 134.390 135.242 134.920 134.722 134.408 135.053 134.764	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 25.8444 26.8581 27.2397 27.2590 27.2706 27.2894 27.6305 27.6468 27.6620	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753 1.06714 .97144 .88007 1.16634	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224 .20225 .21085 .21114 .21186 .21176 .21996	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21078 .21116 .21194 .21194	.06 .09 .16 .09 .18 .16 .07 .06 .22 .12 .20 .18 .43 .23
69013 69012 69011 69010 69009 69008 69007 69006 69005 69004 69003 69002	34.180 34.177 34.177 34.172 45.585 45.577 45.574 45.564 56.761 56.763 56.763 56.763 56.763 56.7925 67.925	135.304 134.983 134.482 135.055 134.801 134.607 134.390 135.242 134.920 134.722 134.408 135.053 134.764 134.496	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 25.8444 26.8581 27.2397 27.2590 27.2706 27.2894 27.6305 27.6468 27.6620	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .15753 1.06714 .97144 .88007 1.16634 1.06592	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224 .20225 .21085 .21114 .21186 .21176 .21996 .22006 .22036	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21078 .21116 .21194 .21193 .21994	.06 .09 .16 .09 .18 .16 .07 .06 .22 .12 .20 .18 .43 .23 .40 .32
69013 69012 69011 69010 69009 69008 69007 69006 69005 69005 69004 69003 69002 69001	34.180 34.177 34.172 45.585 45.577 45.574 45.564 56.763 56.763 56.773 56.735 67.925 67.926 67.928	135.304 134.983 134.482 135.055 134.801 134.607 134.590 135.242 134.920 134.722 134.722 134.607 134.725 134.725 134.725 134.725 134.725 134.725	25.7620 26.2824 26.3051 26.3239 26.8156 26.8319 25.8444 26.8581 27.2397 27.2590 27.2706 27.6305 27.6468 27.6620 27.6754	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753 1.06714 .97144 .88007 1.16634 1.06592 .97010 .87933	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20225 .21085 .21114 .21186 .21176 .21996 .22006 .22036 .22067	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21078 .21116 .21194 .21193 .21994 .22013 .22051 .22089	.06 .09 .16 .09 .18 .16 .07 .06 .22 .12 .20 .18 .43 .23 .40 .32 .33 .37
69013 69012 69011 69010 69009 69008 69007 69006 69005 69004 69003 69002	34.180 34.177 34.177 34.172 45.585 45.577 45.574 45.564 56.761 56.773 56.735 67.925 67.926 67.928	135.304 134.983 134.717 134.482 135.055 134.801 134.607 134.390 135.242 134.920 134.722 134.905 135.053 134.764 134.96 135.053	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 27.2397 27.2590 27.2706 27.2894 27.6305 27.6468 27.6620 27.6754	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753 1.06714 .88007 1.16634 1.06592 .97010 .87933	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224 .20225 .21085 .21116 .21176 .21996 .22006 .22006 .22036 .22067	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21116 .21194 .21193 .2194 .22013 .22051 .22051 .22089 Adjusted Thermal	.06 .09 .16 .09 .18 .16 .07 .06 .22 .12 .20 .18 .43 .23 .40 .32 .33 .37
69013 69012 69011 69010 69009 69008 69007 69006 69005 69005 69004 69003 69002 69001	34.180 34.177 34.172 45.585 45.577 45.574 45.564 56.763 56.763 56.773 56.735 67.925 67.926 67.928	135.304 134.983 134.482 135.055 134.801 134.607 134.590 135.242 134.920 134.722 134.722 134.607 134.725 134.725 134.725 134.725 134.725 134.725	25.7620 26.2824 26.3051 26.3239 26.8156 26.8319 25.8444 26.8581 27.2397 27.2590 27.2706 27.6305 27.6468 27.6620 27.6754	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753 1.06714 .97144 .88007 1.16634 1.06592 .97010 .87933	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20225 .21085 .21114 .21186 .21176 .21996 .22006 .22036 .22067	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21078 .21116 .21194 .21193 .21994 .22013 .22051 .22089	.06 .09 .16 .09 .18 .16 .07 .06 .22 .12 .20 .18 .43 .23 .40 .32 .33 .37
69013 69012 69011 69010 69009 69008 69007 69005 69004 69003 69002 69001	34.181 34.180 34.177 34.172 45.585 45.577 45.574 45.564 56.761 56.753 56.743 56.735 67.925 67.926 67.928	135.304 134.983 134.717 134.802 135.055 134.801 134.07 134.390 135.242 134.920 134.722 134.722 134.764 135.053 134.764 134.496 134.259	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8349 26.8581 27.2397 27.2590 27.2706 27.2894 27.6305 27.6468 27.6620 27.6754	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753 1.06714 .97144 .88007 1.16634 1.06592 .97010 .87933	.18038 .19082 .19108 .19153 .19175 .20144 .20170 .20224 .20225 .21085 .21114 .21186 .21176 .21996 .22006 .22036 .22067 Experimental Thermal Conductivity W/m.K	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21078 .21116 .21194 .21193 .22013 .22051 .22089 Adjusted Thermal at a nominal Temperature of 145 K	.06 .09 .16 .09 .18 .16 .07 .06 .22 .12 .20 .18 .43 .23 .40 .32 .33 .37 Conductivity daviation froe correlation parcent
69013 69012 69010 69010 69009 69008 69007 69005 69004 69003 69002 69001 Run Pt.	34.180 34.177 34.172 45.585 45.577 45.574 45.566 76.753 56.763 56.763 56.763 67.926 67.928 Pressure MPa .357 .357	135.304 134.983 134.717 134.482 135.055 134.801 134.607 134.390 135.242 134.920 134.722 134.408 135.053 134.764 134.496 134.259	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 27.2397 27.2590 27.2706 27.2894 27.6305 27.6468 27.6620 27.6754	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753 1.06714 .88007 1.16634 1.06592 .97010 .87933	.18038 .19082 .19106 .19153 .19175 .20144 .20170 .20224 .20225 .21085 .21176 .21186 .21176 .21996 .22006 .22006 .22036 .22067 Experimental Thermal Conductivity W/m.K	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21176 .21194 .21194 .21193 .21994 .22013 .22051 .22051 .22089 Adjusted Thermal at a nominal Temperature of 145 K	.06 .09 .16 .09 .18 .16 .07 .06 .22 .12 .20 .18 .43 .23 .40 .32 .33 .37 Conductivity deviation fros correlation parcent
69013 69012 69011 69010 69009 69008 69007 69005 69004 69003 69002 69001	34.181 34.180 34.177 34.172 45.585 45.577 45.574 45.564 56.761 56.753 56.743 56.735 67.925 67.926 67.928	135.304 134.983 134.717 134.802 135.055 134.801 134.07 134.390 135.242 134.920 134.722 134.722 134.764 135.053 134.764 134.496 134.259	25.7620 26.2824 26.3051 26.3239 26.3403 26.8156 26.8319 27.2397 27.2590 27.2706 27.2894 27.6305 27.6468 27.6620 27.6754	.71306 1.06951 .97323 .88175 .79479 1.06806 .97227 .88134 .79411 1.15753 1.06714 .97144 .88007 1.16634 1.06592 .97010 .87933	.18038 .19082 .19108 .19153 .19175 .20144 .20170 .20224 .20225 .21085 .21114 .21186 .21176 .21996 .22006 .22036 .22067 Experimental Thermal Conductivity W/m.K	.001 .001 .001 .001 .001 .001 .001 .001	.18006 .18056 .19074 .19106 .19161 .19189 .20142 .20176 .20235 .20242 .21078 .21116 .21194 .21193 .22013 .22051 .22089 Adjusted Thermal at a nominal Temperature of 145 K	.06 .09 .16 .09 .18 .16 .07 .06 .22 .12 .20 .18 .43 .23 .40 .32 .33 .37 Conductivity daviation froe correlation parcent

73020	.650	144.746	.6117	.07462	.01658	.005	.01661	-1.13
73019	•650	144.258	.6147	.06176	.01659	.003	.01668	77
73018	•650	143.690	.6182	.05011	.01660	.005	.01675	37
73017	- 650	143.403	.6200	.03975	.01652	•006	.01671	67
					Experimental		Adjusted Thermai	Conductivity
					Thermel		at a nominel	deviation
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Tempereture of 155 K	
	MPe	K	mol/L	W/m	W/m.K		W/m.K	percent
73011	.429	154.710	.3547	.06710	.01708	.003	•01711	-1.16
73010	.429	154.129	.3563	.05448	•01717	.006	.01727	26
73009	.429	153.687	.3575	.04320	.01697	.006	.01712	-1.16
73012	•429	153.161	.3587	.03323	.01691	• 009	.01712	-1.17
73008	.731	155.000	.6342	.08101	.01781	.003	•01781	-1.07
73007	.731	154.460	.6373	•06703	.01773	.004	.01779	-1.22
73006	.731	153.983	•6401	.05444	•01771	.006	•01783	-1.07
73005	.731	153.493	.6429	.04317	.01762	•007	.01779	-1.30
73004	1.082	154.611	1.0133	.08091	.01876	•003	.01880	76
73003	1.082	154.165	1.0184	.06699	.01866	.004	•01875	-1.09
73002	1.082	153.622	1.0252	.05438	.01864	.004	.01880	96
73001	1.082	153.277	1.0293	.04313	.01852	.008	.01872	-1.45
74032	1.600	155.515	21.6615	.75753	•12179	.001	.12170	•12
74031	1.599	155.080	21.7236	.67042	.12260	.001	.12259	•22
74030	1.598	154.711	21.7755	.58883	.12306	.001	.12311	•12
74029	1.595	154.339	21.8274	.51264	.12344	0.000	.12355	04
74027	6.757	155.315	22.4861	.75677	.13193	0.000	•13187	19
74026	6.755	154.878	22.5359	.66974	.13263	.001	.13265	11
74025	6.754	154.565	22.5715	.58861	.13294	.001	.13302	19
74028	6.757	154.223	22.6107	.51217	.13318	.001	.13332	37
74023	14.577	155.484	23.3434	.84885	.14399	0.000	•14390	22
74022	14.576	155.132	23.3765	.75654	.14444	0.000	.14442	20
74021	14.575	154.797	23.4079	.66996	.14487	.001	.14491	18
74024	14.579	154.491	23.4370	.58816	.14520	.001	•14530	22
74019	25.316	155.595	24.2304	.94554	.15793	.001	.15781	12
74018	25.314	155.239	24.2588	.84799	.15829	.001	.15824	14
74017	25.310	154.966	24.2803	.75577	.15867	.001	.15868	09
74020	25.318	154.586	24.3112	.66902	.15889	.001	.15897	22
74016	36.001	155.724		1.04788	.16952	0.000	.16937	23
74015	36.001	155.402	24.9485	.94469	.16996	0.000	.16988	17
74014	35.997	154.976	24.9786	.84668	.17056	.001	.17056	08
74013	35.978	154.755	24.9933	.75506	.17093	.001	•17098	•01
74012	46.637	155.563		1.04740	.18080	.001	.18068	•07
74011	46.631	155.228	25.5433	.94403	.18094	.001	.18089	04
74010	46.626	154.890	25.5652	. 84655	.18148	.001	.18150	.07
74009	46.626	154.570	25.5861	.75482	.18185	.001	.18194	•10
74008	56.930	155.419		1.04587	.19060	.001	.19051	. 23
74007	56.927	154.980	26.0444	.94299	.19079	.001	•19079	.10
74006	56.921	154.681	26.0624	.84574	.19118	.001	•19125	•16
74005	56.919	154.420	26.0781	.75425	.19154	.001	•19167	•21
74004	67.027	155.151		1.04480	.19946	•001	. 19943	•31
74003	67.028	154.884	26.4679	.94232	.19942	.001	.19945	•16
74002	67.035	154.564	25.4865	.84507	.20013	.001	.20023	•36
74001	67.043	154.234	26.5056	.75325	.20037	.001	•20055	•32
					Experimentel		Adjusted Thermal	
					Thermal		at e nominal	deviation
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 165 K	from correlation
	MPe	К	mol/L	W/m	W/m.K		W/m.K	percent
							7,4	
72028	•446	165.249	.3418	.08726	.01821	•002	.01818	-1.25
72027	•446	164.627	•3436	.07221	.01811	.003	.01815	-1.44
72026	• 446	164.008	.3451	.05865	.01807	•004	.01818	-1.30
72025	•446	163.654	•3460	.04651	•01803	.005	.01818	-1.31
72024	•935	164.789	• 7705	.08715	.01912	•002	•01914	-1.69
72023	• 935	164.336	•7739	.07215	.01912	.003	.01919	-1.47
72022	•935	163.737	•7780	.05859	.01903	.004	.01917	-1.64
72021	•935	163.372	.7805	.04646	.01891	•006	•01909	-2.09
72020	1.657	164.151	1.5796	•08695	.02141	.003	.02151	07
72019	1.657	163.770	1.5879	.07200	.02144	• 004	.02158	•17
72018	1.657	163.435	1.5954	.05850	.02147	•005	.02165	• 39
72017	1.657	163.111	1.6032	•04640	.02141	.008	•02163	•19
							4.4.1	Conducations
					Experimental		Adjusted Thermal	
Dun DA	0.00.00	Tannasakus	Danath	Down	Thermal	CTAT	et a nominal	deviation
Run Pt.	Pressure	Temperature		Power	Conductivity	STAT	Temperature of 175 K	
	MPa	K	mol/L	W/m	W/m • K		W/m.K	percent
72016	• 406	175.467	.2899	.09352	•01922	.003	•01917	-1.25
72015	• 406	174.780	.2911	.07739	.01922	•003	•01917	-1.55
72019	• 4 06	174.244	.2921	.06287	.01911	.003	•01911	-1.13
72013	.406	173.672	.2932	•04986	•01908	•006	.01923	96
72013	1.015	174.946	.7777	.09332	•02029	.003	•02030	-1.58
72012	1.015	174.370	.7812	.07730	.02015	•004	•02022	-1.99
72010	1.015	173.887	.7846	.06280	.02015	•005	.02028	-1.76
. 2010	1017	2.3000	0.040	130200				

72009	1.015	173.424	.7875	.04981	.02010	.007	•02028	-1.78
72008	1.751	174.393	1.5010	.09314	.02207	.003	.02214	-1.50
72007	1.751	173.994	1.5075	.07713	•02203	.004	.02215	-1.54
72006	1.751	173.504	1.5156	.06268	.02216	.005	.02234	79
	1.752	173.135	1.5227	.04975	.02194	.008	.02216	-1.68
72005						•003	•02583	2.45
72004	2.459	173.762	2.4825	.09304	.02567			
72003	2.460	173.415	2.5012	.07706	•02579	.005	•02600	2 • 86
72002	2.461	173.064	2.5206	.05264	.02585	.007	.02610	3.04
72001	2.462	172.766	2.5379	.04973	.02528	.013	.02557	• 82
67043	2.648	175.359	18.2186	•59371	•09304	.001	• 0 92 97	2.26
67042	2.648	174.924	18.3394	.51177	.09383	.001	•09384	2.19
67041	2.547	174.506	18.4513	•43594	.09495	.001	• 095 05	2.52
67044	2.649	173.979	18.5893	.36649	.09518	•002	•09537	1.70
67039	4.616	175.226	19.1810	.59337	.09977	.001	•09973	1.00
67038	4.616	174.785	19.2656	.51143	.10043	.001	•10047	• 98
67037	4.615	174.407	19.3373	.43593	.10107	.001	.10117	1.04
67040	4.616	174.021	19.4102	.36631	.10129	.002	•10146	•66
67035	12.710	175.360	21.0598	.68097	.11736	.001	•11730	37
67034	12.708	175.020	21.0983	.59287	.11769	.001	•11769	-,42
67033	12.705	174.534	21.1532	.51103	.11818	.001	•11826	47
67036	12.712	174.088	21.2049	.43563	.11862	•002	.11877	54
			21.9938	.77379		.002	•12821	
67031	19.724	175.653			•12832			66
67030	19.722	175.178	22.0380	.67968	.12901	•001	•12898	50
67029	19.720	174.793	22.0738	•59215	•12957	.001	•12960	38
67032	19.724	174.357	22.1148	.51049	.12980	•002	.12991	55
67028	26.457	175.719	22.6933	.87385	•13772	•001	.13760	58
67027	26.455	175.380	22.7210	.77339	•13811	.001	•13805	54
67026	26.450	174.924	22.7580	.67937	.13861	.001	.13862	49
67025	26.445	174.570	22.7867	•59182	.13879	.001	•13886	61
67024	33.801	175.558	23.3340	.87331	•14701	.001	•14692	49
67023	33.796	175.163	23.3629	.77308	.14743	.001	.14740	46
67022	33.792	174.813	23.3886	.67929	.14773	.001	.14776	47
67021	33.794	174.483	23.4131	.59172	•14827	.001	•14836	32
67020	41.291	175.820	23.8580	.97911	•15522	.001	•15508	40
67019	41.288	175.338	23.8907	.87291	.15573	.001	.15567	35
67018	41.285	175.061	23.9094	.77301	.15608	.001	•15607	29
67017	41.276	174.654	23.9367	.67921	.15653	.001	•15659	23
67016	48.148	175.705	24.3009	.97839	•16260	0.000	•16248	24
67015	48.149	175.305	24.3266	.87240	.16291	.001	•16286	27
67014	48.142	174.788	24.3593	.77253	.16332	.001	.16336	30
67013	48.145	174.596	24.3718	.67878	•16348	.001	•16355	31
67012	55.061	175.547	24.7033	.97742	•16959	•001		12
							•16950	
67011	55.062	175.051	24.7335	.87138	.16993	.001	•16992	17
57010	55.058	174.704	24.7543	•77194	•17064	•001	•17069	• 07
67009	55.051	174.439	24.7700	•67827	•17091	.001	•17101	• 09
67007	61.637	175.386	25.0515	.97739	.17583	0.000	•17576	04
67006	61.642	175.017	25.0731	.87147	•17636	•001	.17636	• 0 8
67005	61.637	174.659	25.0936	•77164	•17657	.001	•17663	•02
67008	61.641	174.273	25.1162	.67816	•17702	.001	•17715	.09
67004	68.363	175.485	25.3635		.18195	0.000	•18186	.19
67003	68.360	175.204	25.3790	•97707	•18224	.001	•18220	•22
67002	68.375	174.804	25.4018	.87098	•18235	0.000	•18238	.08
67001	68.379	174.506	25.4185	.77133	.18264	.001	.18273	.10
					Experimental		Adjusted Thermal	Conductivity
					Thermai		at a nominal	deviation
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 185 K	
	MPe	K	moi/L	W/m	W/m.K	3.71	W/m.K	percent
	,	•	110176	W & E1	n r at a r		# F III @ IX	percent
71020	•752	185.421	• 5200	.08289	.02072	•003	•02067	-2.34
71019	.752	184.903	_					
11014	176	104.403	•5218	.05734	•02077	•003	.02078	-1.79

					Experimental		Adjusted Thermal	Conductivity
					Thermai		at a nominal	deviation
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 185 K	from correlation
	MPa	К	mo I/L	W/m	W/m • K		W≠m • K	percent
71020	.752	185.421	• 5200	.08289	.02072	•003	.02067	-2.34
71019	•752	184.903	•5218	.05734	•02077	.003	.02078	-1.79
71018	•752	184.371	.5236	.05343	•02079	.004	•02087	-1.40
71017	•752	183.963	.5256	.04113	.02011	.006	.02024	-4.57
71016	1.507	185.602	1.1246	.09995	•02216	.002	.02208	-2.97
71015	1.508	185.087	1.1296	.08280	.02209	.002	.02208	-3.02
71014	1.508	184.516	1.1350	.06728	.02206	.003	.02213	-2.86
71013	1.508	184.171	1.1385	.05340	•02151	.004	.02162	-5.30
71012	2.252	185.078	1.8568	.09978	.02416	.002	.02415	-2.69
71011	2.251	184.541	1.8676	.08267	.02397	.003	.02404	-3.26
71010	2.252	184.292	1.8732	.06718	.02374	.004	.02385	-4.15
71009	2.252	183.844	1.8827	.05334	.02407	.005	.02425	-2.55
71008	2.884	184.688	2.6675	.09972	.02694	.002	.02701	-1.38
71007	2.884	184.300	2.6844	.08261	.02699	.002	.02714	-1.10
71006	2.884	183.919	2.7014	.06714	.02692	.004	.02715	-1.29
71005	2.885	183.674	2.7130	.05331	.02723	.007	.02750	11
71024	3.449	184.243	3.7462	.09967	.03246	.003	.03270	3.57
71023	3.449	183.964	3.7775	.08262	.03251	.003	.03284	3.56
71022	3.450	183.733	3.8053	.06717	.03364	.006	.03405	6.62
71021	3 • 4 50	183.486	3.8352	.05334	.03404	.005	.03452	7.53

					Experimental		Adjusted Thermal	
Run Pt.	Pressura	Temperature	Density	Ронег	Thermal Conductivity	STAT	at a nominal Temperature of 197 K	deviation from correlation
KUII F L	MPa	K	mol/L	W/m	W/m.K	3141	W/m.K	percent
66105 66104	1.013 1.013	200.259 199.676	.6521 .6545	.10870	.02272 .02271	.002	•02242 •02246	-1.52 -1.34
66103	1.013	199.006	•6574	.07318	.02269	.003	.02251	-1.18
66102	1.014	199.033	.6576	.07318	.02260	.005	.02241	-1.60
66101	1.014	198.544	.6596	.05806	.02258	.005	.02244	-1.50
66099 66098	1.531 1.531	199.330 198.735	1.0328	.09005 .07319	.02344 .02344	.003 .005	•02324 •02329	-2.12 -1.94
55097	1.532	199.347	1.0405	.05809	.02324	.005	.02324	-2.71
66100	1.531	198.016	1.0421	.04472	.02290	.009	.02282	-4.13
66095	2.669	199.379	2.0020	.10857	.02582	.003	.02569	-2.86
66094 66093	2.670 2.671	198.893 198.471	2.0117	.08996	.02592 .02586	•005 •004	•02582 •02578	-2.45 -2.69
66096	2.669	198.055	2.0272	.05804	.02589	.007	.02584	-2.55
66091	3.520	198.901	2.9427	.10837	.02876	.003	.02876	-2.42
66090	3.520	198.535	2.9573	.08981	.02894	.304	•02895	-1.94
66089 66092	3.520 3.519	198.178 197.847	2.9718 2.9850	.07303 .05795	.02884 .02874	.006	•02885 •02875	-2.46 -2.97
66087	4.156	198.920	3.8460	.12859	.03241	.003	.03258	-1.19
66086	4.156	198.545	3.8737	•10828	.03246	.004	.03261	-1.46
66085	4.156	198.129	3.9052	.08978	.03235	.006	.03247	-2.31
66088 66083	4.156 4.568	197.856 198.576	3.9265 4.6497	.07300	.03271 .03611	.007 .003	•03281 •03644	-1.54 76
66082	4.568	198.243	4.6911	.10825	.03640	.005	.03667	67
66081	4.569	197.957	4.7297	.08973	•03666	.007	.03688	64
66084	4.568	197.623	4.7720	.07297	.03688	.008	•03704	82
66080 660 7 9	4.860 4.860	198.546 198.321	5.3693 5.4130	.15048	.04013 .04052	•003 •004	•04066 •04099	•11 •30
66078	4.861	197.947	5.4901	.10820	.04067	.005	.04104	69
66077	4.861	197.737	5.5374	.08967	.04065	.006	.04095	-1.58
66076	5.049	198.059	5.0930	•12831	.04489	•007	.04545	• 95
66075 6607 4	5.049 5.049	197.769 197.600	6.1833 6.2390	.10808	.04498 .04524	•305 •006	•04541 •04559	40 79
66073	5.049	197.361	6.3237	.07290	.04518	.010	.04540	-2.41
66072	5.172	197.928	6.6566	.12830	.04844	.004	•04907	• 78
66071	5.172	197.711	5.7500	.10812	.04906	•005	.04957	• 53
66070 66069	5.172 5.172	197.542 197.323	6.8278	.08966 .07291	.04972 .04996	.008	.05012 .05021	•60 -•65
66068	5.229	197.897	6.9547	.12830	.05060	.004	.05128	1.18
66067	5.229	197.733	7.0374	.10811	.05105	.006	.05163	• 78
66066	5.230	197.549	7.1380	.08967	.05194	• 308	• 05239	• 95 • 4 3
66065 66063	5.229 5.328	197.367 197.769	7.2409 7.6037	.07292	.05249 .05377	.011	•05281 •05448	92
66062	5.328	197.637	7.6956	.10809	.05438	.005	.054 99	-1.08
66061	5.329	197.424	7.8603	.08963	•05510	•006	.05553	-2.01
66064 56059	5.328 5.407	197.318 197.894	7.9374 8.0502	.07289 .15027	.05535 .05720	.010	.05568 .05812	-2.62 .45
66058	5.408	197.711	8.2045	.12831	.05796	.003	.05872	15
66057	5.408	197.560	8.3377	.10812	.05854	.005	.05916	77
66060	5.407	197.396	8.4911	.08963	.05971	• 007	.06017	59
66055 66054	5.500 5.500	198.115 197.914	8.5425	.19936 .17396	.06127 .06186	.004	•06250 •06291	2.69 1.62
66053	5.500	197.829	8.8188	.15027	.06256	.004	•06353	1.85
66056	5.499	197.597	9.0554	.12829	.06301	.004	.06374	. 25
66052	5.692	198.226	9.9294	.22642	.06875	.004	.07025	4.15 3.60
66051 66050	5.692 5.692	198.053 197.882	10.1199	.19930 .17384	.06921 .06919	.003 .005	•07052 •07030	2.42
65049	5.693	197.678	10.5520	.15021	.07018	.004	.07104	2.42
66048	5.965	198.474	11.4627	.25546	.07159	.002	.07324	2.17
66047	5.966	198.275 198.070	11.6526	.22652	.07175 .07203	.003	.07317	1.51 1.03
66046 66045	5.966 5.967	197.904	12.0007	.17397	.07253	.004	.07321 .07352	1.02
66043	6.571	198.471	13.6041	.25559	.07406	.004	.07520	75
66042	6.571	198.290	13.7018	.22661	.07372	.003	.07471	-1.67
66041	6.572	198.023 197.943	13.8421	.19942	•07424	.003	.07501	-1.63 -1.68
66044 66040	6.571 7.445	198.650	13.8813	•17398 •28629	•07435 •07703	.002	•07506 •07786	-1.39
66039	7.446	198.306	15.0761	.22651	.07759	.003	.07824	-1.34
66038	7.447	197.917	15.2077	.17375	•07758	.005	.07803	-2.13
66037	7.447	197.672 198.998	15.2885	.12817	.07822	.007	•07854 •08258	-1.78 74
65036 66035	8.899 8.899	198.586	16.1642	.35314	.08202 .08243	.002	.08287	90
66034	8.900	198.134	16.3691	.22666	.08295	.003	.08326	-1.00
66033	8.900	197.859	16.4329	.17394	.08331	.005	.08355	-1.00
66032 66031	11.180 11.180	199.382 198.850	17.3129	.42637 .35272	.08843 .08894	.001	.08872 .08916	28 40
66030	11.180	198.640	17.4426	.28598	.08921	.003	.08940	37
66029	11.180	198.159	17.5256	.22649	.08973	.003	.08987	41
66027	14.451	199.233	18.4565	.42651	.09632	.001	.09635	25
66026	14.449	198.829	18.5106	.35280	• 09669	.001	.09671	30

66025								
P 00 2 2		100 513	10 5530	.28617	00701	002	.09703	30
44030	14.449	198.513 197.985	18.5530	.22656	.09701 .09736	.002	.09703	52
65028	14.452	199.647	19.5067	.50675	.10559	.002	.10544	•13
65024	19.221	199.171	19.5579	.42611	.10573	.002	.10561	16
65023	19.217	198.766	19.6010	.35261	.10577	.006	.10567	47
66021	19.214	198.521	19.6269	.28592	.10675	.003	.10666	. 24
66020	26.073	200.860	20.5018	.69178	.11455	.001	.11416	80
55019	26.073	200.358	20.5462	.59659	.11503	.001	.11469	75
66018	26.070	199.942	20.5827	.50844	.11546	.001	.11517	67
56017	26.057	199.516	20.6201	.42752	.11552	.002	.11527	93
66016	25.267	201.141	21.5630	.79422	.12669	.001	.12618	75
66015	35.265	200.642	21.6000	.69191	.12733	.001	.12688	55
66014	35.253	200.211	21.6319	.59665	•12763	.001	.12724	58
65013	35.263	199.725	21.6680	.50861	•12779	.002	.12746	75
66012	47.247	200.885	22.5301	.79406	.14078	.001	.14027	51
66011	47.244	200.367	22.6629	.69175	•14141	.001	.14097	33
6601C	47.240	199.989	22.6868	.59658	.14138	.001	.14098	55
55009	47.238	199.680	22.7063	.50871	•14174	.002	.14139	46
55008	62.619	201.164	23.5417	.90315	.15625	.001	•15570	04
66007	62.619	200.687	23.6683	.79401	.15668	.001	.15619	•01
55005	62.620	200.378	23.6855	.69177	.15687	.001	.15642	01
56005	52.621	200.002	23.7065	.59670	.15719	.001	•15679	• 02 • 47
56004	69.413	201.156 200.706	24.0248	.90254	.16311 .16328	.001	•16256 •16279	•38
65003 66002	69.417 69.421	200.328	24.0690	.69139	.16356	.001	.16312	.38
56001	69.426	200.030	24.0850	.59653	.16391	.002	•16351	• 46
20001	371420	200.000	24.0030	0 3 7 0 3 3	110371	.002	*10331	* 40
					Experimental		Adjusted Thermal	Conductivity
					Thermal		at a nominal	devistion
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 215 K	
	MPa	K	mol/L	W/m	W/m.K		W/m.K	percent
65104	1.068	215.053	.6330	.09777	.02440	.003	.02439	53
65103	1.068	214.489	.5350	.07948	.02427	.004	.02432	84
65102	1.068	213.947	.5369	.06308	.02432	.005	.02443	42
65101	1.068	213.426	.6388	.04859	.02411	.008	.02428	-1.08
65100	1.747	215.328	1.0771	•11797	.02539	.003	.02536	89
65099	1.747	214.790	1.0808	.09775	.02534	.003	.02536	90
65098	1.747	214.260	1.0844	.07948	.02527	.004	.02535	-1.00
65097	1.748	213.806	1.0880	.06309	.02512	.006	.02524	-1.44
65096	3.035	214.864	2.0509	.11789	.02764	.003	.02765	-1.27
65095	3.036	214.326	2.0606	.09770	.02749	.004	•02755	-1.73
65094	3.036	213.846	2.0694	.07942	.02786	.011	.02797	30
65093	3.038 4.165	213.566	2.0751	.06307	.02761	.007	• 02775	-1.16 52
65092 65091	4.165	214.431 214.021	3.1047 3.1187	.09764	.03069 .03C68	.003	.03074 .03076	58
55090	4.165	213.625	3.1328	.07939	.03067	.005	.03078	65
65089	4.165	213.296	3.1444	.06304	.03069	.008	.03082	61
55088	5.021	215.344	4.0275	.18965	.03384	.002	.03382	. 13
65087	5.021	214.428	4.0802	.13982	.03398	.003	.03401	. 18
65086	5.021	213.774	4.1194	.09759	.03421	.005	.03428	• 56
65085	5.021			.06304	.03439		.03449	
55083		213.072	901063	* 0 0 3 0 7	103737	• 000	• • • • • • • • • • • • • • • • • • • •	. 75
	5.810	213.072	4.1625 5.1724		.03844	.008		.75 1.32
65082	5.810 5.811			.18951 .16361		.002	.03845 .03822	
65081	5.811 5.813	214.675 214.439 214.014	5.1724 5.1974 5.2426	.18951	.03844 .03821 .03806	.002 .003	.03845	1.32
65081 65084	5.811 5.813 5.810	214.675	5.1724 5.1974	.18951 .16361	.03844 .03821	.002	.03845 .03822	1.32
65081 65084 65078	5.811 5.813 5.810 6.372	214.675 214.439 214.014 213.567 214.369	5.1724 5.1974 5.2426 5.2840 6.1843	.18951 .16361 .13970 .11768 .18936	.03844 .03821 .03806	.002 .003 .003 .004	.03845 .03822 .03808 .03918 .04279	1.32 .47 38 2.03 1.43
65081 65084 65078 65077	5.811 5.813 5.810 6.372 6.373	214.675 214.439 214.014 213.567 214.369 214.079	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311	.18951 .16361 .13970 .11768 .18936 .16353	.03844 .03821 .03806 .03916 .04281	.002 .003 .003 .004 .003	.03845 .03822 .03908 .03918 .04279 .04280	1.32 .47 -38 2.03 1.43
65081 65084 65078 65077 65080	5.811 5.813 5.810 6.372 6.373 6.370	214.675 214.439 214.014 213.567 214.369 214.079 213.712	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823	.18951 .16361 .13970 .11768 .18936 .16353 .13961	.03844 .03821 .03806 .03916 .04281 .04283	.002 .003 .003 .004 .003 .004	.03845 .03822 .03908 .03918 .04279 .04280 .04263	1.32 .47 38 2.03 1.43 .97
65081 65084 65078 65077 65080 65079	5.811 5.813 5.810 6.372 6.373 6.370 6.371	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 6.3220	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760	.03844 .03821 .03806 .03916 .04281 .04263 .04267 .04309	.002 .003 .003 .004 .003 .004 .004	.03845 .03822 .03908 .03918 .04279 .04280 .04263 .04303	1.32 .47 -38 2.03 1.43 .97 .03
65081 65084 65078 65077 65080 65079 65076	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.934	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2320 7.4446	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925	.03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309	.002 .003 .003 .004 .003 .004 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303	1.32 .47 38 2.03 1.43 .97 .03 .56
65081 65084 65078 65077 65080 65079 65076 65075	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.934 213.759	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925 .16346	.03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309 .04797	.002 .003 .003 .004 .003 .004 .005 .002	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13
65081 65084 65078 65077 65080 65079 65076 65075	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.934 213.759 213.375	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .1760 .18925 .16346 .13957	. 03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309 .04797	.002 .003 .003 .004 .003 .304 .004 .005 .002	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787	1.32 .47 -38 2.03 1.43 .97 .03 .56 -113 .12
65081 65084 65078 65077 65080 65079 65076 65075 65074 65073	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.930	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.934 213.759 213.375 213.185	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799 7.6293	.18951 .16361 .13970 .11768 .16353 .13961 .11760 .18925 .16346 .13957 .11757	.03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903	.002 .003 .003 .004 .003 .004 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846	1.32 .47 38 2.03 1.43 .97 .03 .56 13 .12 21
65081 65084 65077 65080 65079 65076 65075 65074 65073 65071	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.930 7.356	214.675 214.439 214.014 213.567 214.369 214.079 213.7712 213.474 213.759 213.759 213.185 213.566	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 6.3220 7.4446 7.4678 7.5793 8.5847	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925 .16346	. 03844 .03821 .03806 .03916 .04281 .04267 .04309 .04797 .04831 .04862 .04903	.002 .003 .003 .004 .003 .004 .005 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21
65081 65084 65078 65077 65080 65079 65076 65075 65074 65073 65071 65070	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.929 7.356 7.357	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.759 213.375 213.375 213.375 213.375	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799 7.6293 8.5847 8.6668	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757	.03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295	.002 .003 .003 .004 .005 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .04884	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11
65081 65084 65077 65080 65079 65076 65075 65075 65073 65071 65070 65070	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.930 7.356 7.357 7.358	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.759 213.375 213.185 213.566 213.304 213.126	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799 7.6293 8.5847 8.6668	.18951 .16361 .13970 .11768 .16353 .13961 .11760 .11760 .13957 .11757	.03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295	.002 .003 .004 .004 .005 .002 .005 .005 .005 .005	.03845 .03822 .03828 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .04884 .05275 .05276	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 52
65081 65084 65077 65080 65077 65076 65075 65075 65073 65071 65070 65070 65070	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.930 7.356 7.357 7.358	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.759 213.375 213.185 213.566 213.304 213.126 212.961	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799 7.6293 8.7847 8.7236 8.7709	.18951 .16361 .13970 .11768 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .16346 .13958 .11757	. 03844 . 03821 . 03806 . 03916 . 04281 . 04283 . 04267 . 04309 . 04797 . 04831 . 04862 . 04903 . 05295 . 05301 . 05368	.002 .003 .004 .004 .005 .005 .005 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .04884 .05275 .05276 .05340 .05335	1.32 .47 -38 2.03 1.43 .97 .03 .56 -113 .12 -21 .11 64 -1.28 52
65081 65084 65078 65077 65080 65079 65076 65075 65074 65070 65070 65069 65072 65067	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.930 7.356 7.357 7.358 7.356	214.675 214.439 214.014 213.567 214.369 214.079 213.7712 213.474 213.759 213.759 213.759 213.365 213.304 213.304 213.304 213.304	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 7.4446 7.4678 7.5293 8.5847 8.6668 8.7739 9.5346	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .16346 .13958 .11757	. 03844 .03821 .03806 .03916 .04281 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05366 .05366	.002 .003 .004 .003 .004 .005 .002 .005 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .04864 .05275 .05276 .05340 .05335	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 52 99 -1.25
65081 65084 65077 65080 65077 65076 65075 65075 65073 65071 65070 65070 65070	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.930 7.356 7.357 7.358	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.759 213.375 213.185 213.566 213.304 213.126 212.961	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 7.4446 7.4878 7.5799 7.6293 8.5847 8.6668 8.7236 9.7306 9.5346	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .1757 .09745 .18925 .18925 .16349	.03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05366 .05366	.002 .003 .004 .004 .005 .005 .005 .005 .005 .007	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .04884 .05275 .05276 .05340 .05335	1.32 .47 -38 2.03 1.43 .97 .03 .56 -113 .12 -21 .11 64 -1.28 52
65081 65084 65078 65077 65080 65079 65076 65075 65074 65073 65070 65069 65072 65067 65067	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.930 7.356 7.357 7.358 7.356 7.759 7.759	214.675 214.439 214.014 213.567 214.369 214.079 213.772 213.474 213.759 213.375 213.185 213.566 213.304 213.126 212.961 213.775	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 7.4446 7.4678 7.5293 8.5847 8.6668 8.7739 9.5346	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .16346 .13958 .11757	. 03844 .03821 .03806 .03916 .04281 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05366 .05366	.002 .003 .004 .003 .004 .005 .002 .005 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .05275 .05276 .05340 .05335 .05623	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 -52 -99 -1.25 -45
65081 65084 65077 65079 65077 65076 65075 65075 65073 65071 65070 65069 65069 65069 65065	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.929 6.930 7.356 7.356 7.759 7.759 7.760	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.759 213.375 213.375 213.126 213.94 213.759 213.375 213.126 213.712 213.375	5.1724 5.1974 5.2426 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799 7.6293 8.5847 8.7709 9.5346 9.5447 9.5346	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .16346 .13958 .11757 .09745 .18925 .16349 .13953	. 03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05368 .05368	.002 .003 .004 .004 .005 .005 .005 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .04884 .05275 .05276 .05340 .05335 .05633 .05710	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 52 99 -1.25 45 56
65081 65084 65077 65070 65079 65075 65075 65074 65070 65070 65069 65067 65067 65065 65065 65066 65066 65068	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.930 7.356 7.357 7.358 7.356 7.759 7.760 7.759 8.254 8.255	214.675 214.439 214.014 213.567 214.369 214.079 213.772 213.474 213.934 213.759 213.375 213.185 213.566 213.304 213.126 212.961 213.712 213.712 213.712 213.712 213.712	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799 7.6293 8.5847 8.6668 8.7236 9.7709 9.5346 9.4477 9.7090 9.7465	.18951 .16361 .13970 .11768 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .16346 .13958 .11757	.03844 .03821 .03826 .03916 .04281 .04283 .04267 .04397 .04797 .04831 .04862 .04903 .05295 .05306 .05366 .05366 .05726	.002 .003 .004 .004 .005 .005 .005 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04363 .04387 .04819 .04846 .04884 .05275 .05276 .05340 .05340 .05335 .05710 .05726	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 -52 -99 -1.25 -45 -56 -1.37 -86 -67
65081 65084 65077 65080 65077 65076 65075 65073 65071 65070 65069 65069 65069 65065 65068 65068	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.929 6.930 7.356 7.356 7.759 7.759 7.759 7.759 8.255 8.255	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.759 213.375 213.375 213.375 213.126 213.966 213.712 213.375	5.1724 5.1974 5.2426 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799 7.6293 8.5847 8.7608 8.7709 9.5346 9.6477 9.7465 10.6266 10.7022 10.7578	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .18925 .11757 .18925 .11757 .18925 .11757 .18925 .11757 .18925 .11757 .18925 .11757 .18925 .11757 .18926 .1	.03844 .03821 .03826 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05368 .05368 .05736 .05736 .05736	.002 .003 .004 .004 .005 .005 .005 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .05275 .05276 .05340 .05335 .05623 .05710 .05726 .05726	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.20 -52 -99 -1.25 -45 -56 -1.37 -86
65081 65084 65077 65080 65077 65076 65075 65073 65071 65071 65070 65069 65069 65066 65066 65066 65066 65062 65062	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.930 7.356 7.357 7.358 7.356 7.759 7.759 7.759 8.255 8.255 8.255	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.759 213.375 213.185 213.566 213.304 213.126 212.961 213.75 213.200 213.79 213.75 213.185 213.126	5.1724 5.1974 5.2426 6.2823 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799 7.6293 8.5847 8.6668 8.7236 8.7709 9.5346 6.7236 10.6266 10.7022 10.7578 10.8356	.18951 .16361 .13970 .11768 .16353 .13961 .11760 .13957 .11757 .16346 .13958 .11757 .18925 .16349 .13958 .11757 .18925 .16349 .13958 .11757 .18916 .13958 .11757 .18916 .13958 .11757 .18916	.03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05368 .05366 .056364 .05726 .06038 .06079 .06104 .06131	.002 .003 .004 .004 .005 .005 .005 .005 .005 .005	.03845 .03822 .03828 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .04884 .05275 .05276 .05340 .05335 .05623 .05710 .05726 .05694 .06019 .06056	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 52 99 -1.25 45 56 -1.37 86 67
65081 65084 65077 65080 65079 65076 65075 65073 65071 65070 65067 65067 65067 65066 65067 65068 65068 65064 65063 65064 65062 65062 65062 65062	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.929 6.929 6.929 6.930 7.356 7.357 7.358 7.356 7.759 7.759 7.759 8.255 8.255 8.255 8.697	214.675 214.439 214.014 213.567 214.369 214.079 213.7712 213.474 213.759 213.759 213.759 213.185 213.266 213.304 213.126 212.961 213.712 213.375 213.375 213.712 213.777 213.772 213.778 213.778	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2820 7.4446 7.4678 7.5799 7.6293 8.5847 8.6668 8.7709 9.5346 9.4477 9.7090 9.7465 10.6266 10.7022 10.7578 11.5054	.18951 .16361 .13768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .09745 .18925 .16349 .13953 .11757 .16346 .13958	. 03844 .03821 .03826 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05366 .05644 .05737 .05756 .05726 .06038 .06079 .06131	.002 .003 .004 .004 .005 .002 .005 .005 .005 .005 .005 .006 .004 .003 .004 .004 .003 .004 .004 .003	.03845 .03822 .03808 .03918 .04279 .04283 .04263 .04303 .04787 .04819 .04846 .04884 .05275 .05276 .05340 .05335 .05623 .05710 .05726 .05623 .05710 .05726 .05623	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 52 99 -1.25 45 56 -1.37 88 67 88
65081 65084 65077 65070 65079 65076 65075 65071 65071 65070 65069 65067 65067 65068 65068 65068 65068 65068 65068 65069 65069 65069 65069	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.929 6.930 7.356 7.357 7.358 7.356 7.759 7.760 7.759 7.760 7.759 8.255 8.255 8.255 8.255 8.697 8.697	214.675 214.439 214.014 213.567 214.369 214.079 213.772 213.474 213.934 213.759 213.375 213.3185 213.566 213.304 213.126 212.961 213.712 213.712 213.775 213.708 213.798 213.577 213.415 213.415 213.415 213.415	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 7.4446 7.4678 7.5799 7.6293 8.5847 8.76668 8.7709 9.5346 9.6477 9.7940 10.2566 10.7022 10.7578 11.5554 11.5554	.18951 .16361 .13768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .09745 .18925 .16349 .13953 .11757 .18916 .18916 .18916 .18916	.03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05366 .055644 .05737 .05756 .05737 .05756 .06038 .06079 .06104 .06131	.002 .003 .004 .003 .004 .005 .005 .005 .005 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .05275 .05276 .05340 .05335 .05623 .05710 .05726 .05626 .06079 .06102 .06328	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 52 99 -1.25 45 56 -1.37 86 67 60 63
65081 65084 65077 65080 65077 65076 65075 65074 65073 65070 65070 65069 65069 65069 65065 65068 65068 65068 65069 65069	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.930 7.356 7.357 7.358 7.356 7.759 7.759 7.760 7.759 8.255 8.255 8.255 8.697 8.697 8.698	214.675 214.439 214.014 213.567 214.369 214.079 213.772 213.474 213.759 213.375 213.375 213.366 213.304 213.712 213.712 213.775 213.712 213.775	5.1724 5.1974 5.2426 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799 7.6293 8.5847 8.6668 8.7236 9.7309 9.5346 9.5477 9.7465 10.7022 10.7578 11.5054 11.5054 11.5059 11.6358	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .1757 .09745 .18925 .16349 .13953 .11757 .21680 .13957 .13947 .13947 .13947 .13947 .13947 .13947 .13947	.03844 .03821 .03826 .03821 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05368 .05368 .05366 .05737 .05756 .05737 .05756 .06038 .06079 .06104 .06131 .06346 .06392 .06411	.002 .003 .004 .004 .005 .005 .005 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .05275 .05276 .05340 .053340 .05335 .05623 .05710 .05726 .05694 .06019 .06056 .06079 .06102 .06388	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 52 99 -1.25 45 56 -1.37 86 -1.37 86 67 60 63 63
65081 65084 65077 65080 65077 65076 65075 65073 65071 65070 65067 65067 65067 65065 65065 65066 65065 65062 65062 65062 65057 65058 65058 65058 65057 65057	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.929 6.930 7.356 7.356 7.759 7.759 7.759 8.255 8.255 8.255 8.697 8.698 8.696	214.675 214.439 214.014 213.567 214.369 214.079 213.712 213.474 213.759 213.375 213.375 213.185 213.566 213.566 213.712 213.7712 213.7712 213.7712 213.7712 213.7712 213.7712 213.575 213.191 213.742 213.742 213.742 213.742 213.742	5.1724 5.1974 5.2426 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799 7.6293 8.5847 8.7709 9.5346 8.7723 9.5346 10.7022 10.7578 10.8356 11.5054 11.5054 11.5054 11.5054	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .16346 .13958 .11757 .16949 .13953 .11757 .16949 .13953 .11757 .16949 .13953 .11757 .16946 .16337 .13947 .16336 .13952	.03844 .03821 .03826 .03821 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05368 .05368 .05736 .05736 .05736 .05726 .06038 .06079 .06104 .06131 .06346 .06349	.002 .003 .004 .004 .005 .005 .005 .005 .005 .006 .004 .006 .002 .003 .005 .005 .005 .005	.03845 .03822 .03828 .03918 .04279 .04280 .04263 .04303 .04387 .04819 .04846 .05275 .05276 .05340 .05340 .05335 .05623 .05710 .05726 .05694 .06019 .06056 .06079 .06102 .06328 .06372 .06386 .06422	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.26 52 99 -1.25 45 56 -1.37 86 60 60
65081 65084 65077 65080 65077 65076 65075 65073 65071 65070 65070 65067 65067 65066 65066 65068 65068 65061 65069 65061 65059 65058 65058 65058 65060 65058	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.930 7.356 7.357 7.358 7.356 7.759 7.759 7.759 8.255 8.255 8.255 8.697 8.698 8.698 8.696 9.310	214.675 214.439 214.014 213.567 214.369 214.079 213.7712 213.474 213.934 213.759 213.185 213.566 213.304 213.126 212.961 213.712 213.975 213.712 213.975 213.712 213.975 213.712 213.975 213.975 213.975 213.975 213.975 213.975 213.975 213.975 213.975 213.975 213.975 213.975 213.975 213.975 213.975 213.975 213.975 213.975	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2820 7.4446 7.4678 7.5799 7.6293 8.5847 8.6668 8.7709 9.5346 9.4477 9.7090 9.7465 10.6266 10.7022 10.7578 11.5054 11.5054 11.5054 11.5054 11.6358 11.7127 12.4179	.18951 .16361 .13768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .09745 .18925 .16349 .13953 .11757 .21678 .18916 .18916 .18916 .18915 .16337 .18916 .18915 .16336	.03844 .03821 .03826 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05366 .05644 .05737 .05756 .05726 .06038 .06079 .06104 .06131 .06346 .06392 .06449 .06449	.002 .003 .004 .004 .005 .005 .005 .005 .005 .005	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .04884 .05275 .05276 .05340 .05335 .05623 .05710 .05726 .05694 .06019 .06056 .06079 .06102 .06328 .06372 .06388 .06422 .06661	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 52 99 -1.25 45 56 -1.37 88 67 88 67 60
65081 65084 65077 65080 65077 65076 65075 65074 65071 65070 65069 65067 65066 65067 65068 65062 65063 65063 65063 65064 65063 65065 6506 65065 6506 6506 65065 65065 65065 65065 65065 65065 65065 65065 65065 650	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.929 6.929 6.930 7.356 7.759 7.759 7.760 7.759 7.759 8.255 8.255 8.255 8.255 8.697 8.697 8.698 8.697 8.697 8.698 8.697 8.698 8.697 8.698 8.697 8.698 8.697 8.697 8.697 8.698 8.697	214.675 214.439 214.014 213.567 214.369 214.079 213.7712 213.474 213.759 213.759 213.759 213.750 213.750 213.304 213.126 212.961 213.712	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 7.4446 7.4678 7.5799 7.6293 8.5847 8.76668 8.7739 9.5346 9.4477 9.7465 10.6266 10.7022 10.7578 10.8356 11.5054 11.5691 11.6358 11.7127 12.5139	.18951 .16361 .13768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .09745 .11757 .09745 .11757 .16346 .13958 .11757 .16349 .13953 .11757 .16349 .13953 .11757 .16349 .13953 .11757 .16349 .13953 .11757 .16346 .13953 .11757 .13947 .1	.03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05366 .05737 .05736 .05737 .057756 .05726 .06038 .06079 .06104 .06131 .06346 .06392 .06472 .06672	.002 .003 .004 .003 .004 .005 .005 .005 .005 .005 .005 .006 .003 .004 .003 .004 .003 .003 .003 .003	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .05275 .05276 .05340 .05335 .05710 .05726 .05623 .05710 .05726 .05628 .06019 .06056 .06079 .06102 .06328 .06372 .06388 .06422 .06661 .06692	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 52 99 -1.25 45 56 -1.37 86 67 60 63 67
65081 65084 65077 65080 65077 65076 65075 65073 65077 65070 65070 65070 65069 65065 65068 65068 65068 65069 65069 65065 65066 65065 65066 65057 65057 65057 65057 65057 65057 65057	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.929 6.930 7.356 7.356 7.759 7.759 7.759 7.759 7.759 8.255 8.255 8.697 8.698 8.696 9.311 9.312	214.675 214.439 214.014 213.567 214.369 214.079 213.775 213.474 213.759 213.375 213.185 213.566 213.304 213.712 213.712 213.775 213.126 212.961 213.775 213.775 213.775 213.772 213.775 213.775 213.775 213.775 213.775 213.775 213.775 213.777 213.415 213.774	5.1724 5.1974 5.2426 6.1843 6.2311 6.2823 6.3220 7.4446 7.4878 7.5799 7.6293 8.5847 8.6668 8.7236 9.5346 9.5346 9.5346 9.5346 10.7022 10.7578 10.6256 11.5054 11.5054 11.5054 11.5054 11.5127 12.5139 12.5642	.18951 .16361 .13970 .11768 .18936 .16353 .13961 .11760 .18925 .16346 .13958 .11757 .09745 .18925 .16349 .13953 .11757 .21680 .13953 .11757 .21680 .13958 .1	.03844 .03821 .03826 .03821 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05368 .05366 .05737 .05756 .05737 .05756 .05738 .06079 .06104 .06131 .06349 .06392 .06471 .06449 .066707	.002 .003 .004 .004 .005 .005 .005 .005 .005 .006 .003 .004 .006 .003 .005 .005 .005 .005 .005 .005 .005	.038 45 .038 22 .038 08 .039 18 .042 79 .042 80 .042 63 .043 03 .047 87 .048 19 .048 46 .052 75 .052 76 .053 40 .053 35 .057 10 .057 26 .056 23 .057 10 .057 26 .056 94 .060 19 .060 56 .060 79 .061 02 .063 88 .064 22 .066 88	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 -52 -99 -1.25 -45 -56 -1.37 -86 -67 -60 -63 -43 -07 -15
65081 65084 65077 65080 65077 65076 65075 65074 65071 65070 65069 65067 65066 65067 65068 65062 65063 65063 65063 65064 65063 65065 6506 65065 6506 6506 65065 65065 65065 65065 65065 65065 65065 65065 65065 650	5.811 5.813 5.810 6.372 6.373 6.370 6.371 6.928 6.929 6.929 6.929 6.929 6.930 7.356 7.759 7.759 7.760 7.759 7.759 8.255 8.255 8.255 8.255 8.697 8.697 8.698 8.697 8.697 8.698 8.697 8.698 8.697 8.698 8.697 8.698 8.697 8.697 8.697 8.698 8.697	214.675 214.439 214.014 213.567 214.369 214.079 213.7712 213.474 213.759 213.759 213.759 213.750 213.750 213.304 213.126 212.961 213.712	5.1724 5.1974 5.2426 5.2840 6.1843 6.2311 6.2823 7.4446 7.4678 7.5799 7.6293 8.5847 8.76668 8.7739 9.5346 9.4477 9.7465 10.6266 10.7022 10.7578 10.8356 11.5054 11.5691 11.6358 11.7127 12.5139	.18951 .16361 .13768 .18936 .16353 .13961 .11760 .18925 .16346 .13957 .11757 .09745 .11757 .09745 .11757 .16346 .13958 .11757 .16349 .13953 .11757 .16349 .13953 .11757 .16349 .13953 .11757 .16349 .13953 .11757 .16346 .13953 .11757 .13947 .1	.03844 .03821 .03806 .03916 .04281 .04283 .04267 .04309 .04797 .04831 .04862 .04903 .05295 .05301 .05366 .05737 .05736 .05737 .057756 .05726 .06038 .06079 .06104 .06131 .06346 .06392 .06472 .06672	.002 .003 .004 .003 .004 .005 .005 .005 .005 .005 .005 .006 .003 .004 .003 .004 .003 .003 .003 .003	.03845 .03822 .03808 .03918 .04279 .04280 .04263 .04303 .04787 .04819 .04846 .05275 .05276 .05340 .05335 .05710 .05726 .05623 .05710 .05726 .05628 .06019 .06056 .06079 .06102 .06328 .06372 .06388 .06422 .06661 .06692	1.32 .47 -38 2.03 1.43 .97 .03 .56 -13 .12 -21 .11 -64 -1.28 52 99 -1.25 45 56 -1.37 86 67 60 63 67

/ FA F 1	10 0/0	21/ 20/	10 057/	21127	01071	000	0/071	
65051	10.069	214.386	13.2576	.31107	•06976	•002	•06971	•66
65050	10.069	214.165	13.3158	.27768	• 06 97 9	• 002	•06973	•39
65049	10.070	213.890	13.3873	.24623	.07016	.002	•07008	•53
65047	11.106	214.865	14.1448	.38360	.07303	.001	.07303	
								• 71
65048	11.106	214.535	14.2180	.34629	.07333	.001	•07331	.71
65046	11.106	214.277	14.2756	.31111	•07371	.002	•07369	• 90
55045	11.107	213.865	14.3675	.24629	.07408	.002	.07405	.88
65044	12.417	215.388	14.9938	.46314	•07699	.001	• 07699	1.19
65043	12.418	214.771	15.1117	.38329	.07741	.002	.07741	1.03
65042	12.420	214.164	15.2277	.31081	.07800	.002	.07801	1.09
65041	12.422	213.575	15.3397	.24620	.07822	•002	•07824	•70
6504C	14.257	215.850	15.9152	•55204	.08117	•001	•08114	• 64
65039	14.257	215.227	16.0150	.46405	.08180	.001	.08179	•78
	14.257							
65038		214.710	16.0978	.38386	• OB 221	.001	.08222	• 74
65037	14.256	214.290	16.1641	•31119	•08228	•001	•08231	• 40
65036	16.764	216.298	16.8559	.64676	.08664	.001	·08655	•50
65035	16.766	215.635	16.9464	.55128	.08724	.001	.08719	•57
65034	16.764	215.026	17.0276	•46349	.08762	•001	•08762	• 45
65033	16.767	214.509	17.0979	.39344	• 0 8 7 8 4	.001	•08788	• 22
65032	20.275	215.935	17.9292	.64659	.09375	0.300	•09366	• 08
65031	20.274	215.396	17.9898	.55110	.09422	0.000	.09418	•14
65030	20.273	214.891	18.0466	.46331	• 09476	•001	•09477	•30
65029	20.270	214.387	18.1027	.38337	.09491	.001	.09497	• 06
65028	24.891		18.8882		.10143	.001		13
		216.265		•74910			.10129	
65027	24.888	215.719	18.9400	.64594	•10199	.001	•10191	• 04
65026	24.888	215.148	18.9947	.55067	.10220	.001	•10218	17
65025	24.886	214.700	19.0371	.46303	.10268	.001	.10271	02
65024	31.251	215.940	19.9356	•74886	•11115	•001	•11103	22
65023	31.251	215.396	19.9800	.64577	•11137	.001	•11132	36
65022	31.248	214.911	20.0192	.55055	.11176	.001	•11177	32
65021	31.245	214.518	20.0508	•46298	•11199	.001	.11205	35
55020	39.620	215.647	20.9638	•74856	.12178	.001	•12170	52
65019	39.618	215.127	21.0001	.64561	.12224	.001	•12222	43
55018	39.614	214.645	21.0334	.55037	.12254	.001	•12259	45
55017	39.613	214.236	21.0620	•46262	•12271	•001	•12281	 53
65016	48.553	215.862	21.7900	.85834	.13178	0.000	•13167	44
65015						0.000		47
	48.554	215.441	21.8164	•74778	.13202		.13196	
65014	48.549	214.911	21.8490	.64510	•13238	0.000	•13239	45
55013	48.547	214.490	21.8758	.55003	.13296	.001	•13303	23
65012	57.652	216.114	22.4806	.97647	.14103	0.000	.14089	26
65011	57.648	215.631	22.5078	.85823	•14139	0.000	•14131	23
65010	57.648	215.140	22.5357	.74779	.14170	0.000	•14168	23
65009	57.645	214.779	22.5561	.64478	.14182	.001	.14185	31
65008	66.100	215.841	23.0571	.97558	.14935	.001	.14925	05
65007	66.103	215.368	23.0823	.85774	.14975	.001	•14971	.01
65006								
	66.101	214.932						
4 5005	66.101	214.932	23.1052	•74729	•15016	.001	.15017	•10
65005	66.101 66.103	214.932 214.525			•15016 •15037	.001 .001		•10 •06
65005 65004			23.1052	•74729	•15016	.001	.15017	•10
65004	66.103 69.263	214.525 215.706	23.1052 23.1269 23.2560	.74729 .64455 .97469	•15016 •15037 •15259	.001 .001	.15017 .15043 .15251	•10 •06 •19
65004 65003	66.103 69.263 69.269	214.525 215.706 215.349	23.1052 23.1269 23.2560 23.2748	•74729 •64455 •97469 •85686	•15016 •15037 •15259 •15309	.001 .001 .001	.15017 .15043 .15251 .15305	•10 •06 •19 •36
65004 65003 65002	66.103 69.263 69.269 69.277	214.525 215.706 215.349 214.975	23.1052 23.1269 23.2560 23.2748 23.2946	•74729 •64455 •97469 •85686 •74659	.15016 .15037 .15259 .15309 .15329	.001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329	.10 .06 .19 .36 .33
65004 65003	66.103 69.263 69.269	214.525 215.706 215.349	23.1052 23.1269 23.2560 23.2748	•74729 •64455 •97469 •85686	•15016 •15037 •15259 •15309	.001 .001 .001	.15017 .15043 .15251 .15305	•10 •06 •19 •36
65004 65003 65002	66.103 69.263 69.269 69.277	214.525 215.706 215.349 214.975	23.1052 23.1269 23.2560 23.2748 23.2946	•74729 •64455 •97469 •85686 •74659	.15016 .15037 .15259 .15309 .15329	.001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329	.10 .06 .19 .36 .33
65004 65003 65002	66.103 69.263 69.269 69.277	214.525 215.706 215.349 214.975	23.1052 23.1269 23.2560 23.2748 23.2946	•74729 •64455 •97469 •85686 •74659	.15016 .15037 .15259 .15309 .15329 .15348	.001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353	.10 .06 .19 .36 .33 .28
65004 65003 65002	66.103 69.263 69.269 69.277	214.525 215.706 215.349 214.975	23.1052 23.1269 23.2560 23.2748 23.2946	•74729 •64455 •97469 •85686 •74659	.15016 .15037 .15259 .15309 .15329 .15348	.001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353	.10 .06 .19 .36 .33 .28
65004 65003 65002 65001	66.103 69.263 69.269 69.277 69.276	214.525 215.706 215.349 214.975	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164	.74729 .64455 .97469 .85686 .74659 .64403	.15016 .15037 .15259 .15309 .15329 .15348	.001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353	.10 .06 .19 .36 .33 .28
65004 65003 65002	66.103 69.263 69.269 69.277	214.525 215.706 215.349 214.975	23.1052 23.1269 23.2560 23.2748 23.2946	•74729 •64455 •97469 •85686 •74659	.15016 .15037 .15259 .15309 .15329 .15348	.001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353	.10 .06 .19 .36 .33 .28
65004 65003 65002 65001	66.103 69.263 69.269 69.277 69.276	214.525 215.706 215.349 214.975 214.553	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164	.74729 .64455 .97469 .85686 .74659 .64403	•15016 •15037 •15259 •15309 •15329 •15348 Experimental Thermal Conductivity	.001 .001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation
65004 65003 65002 65001	66.103 69.263 69.269 69.277 69.276	214.525 215.706 215.349 214.975 214.553	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164	.74729 .64455 .97469 .85686 .74659 .64403	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal	.001 .001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal	.10 .06 .19 .36 .33 .28 Conductivity deviation
65004 65003 65002 65001	66.103 69.263 69.269 69.277 69.276	214.525 215.706 215.349 214.975 214.553	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164	.74729 .64455 .97469 .85686 .74659 .64403	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K	.001 .001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent
65004 65003 65002 65001	66.103 69.263 69.269 69.277 69.276 Pressure MPa	214.525 215.706 215.349 214.975 214.553	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164	.74729 .64455 .97469 .85686 .74659 .64403	•15016 •15037 •15259 •15309 •15329 •15348 Experimental Thermal Conductivity	.001 .001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation
65004 65003 65002 65001 Run Pt.	66.103 69.263 69.269 69.277 69.276 Pressure MPa	214.525 215.706 215.349 214.975 214.553 Temperature K	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 Density mol/L	.74729 .64455 .97469 .85686 .74659 .64403	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K	.001 .001 .001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent
65004 65003 65002 65001 Run Pt.	66.103 69.263 69.269 69.277 69.276 Pressure MP8 .977 .978	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 Density mol/L .5207 .5225	.74729 .64455 .97469 .85686 .74659 .64403	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645	.001 .001 .001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20
65004 65003 65002 65001 Run Pt. 62096 62095 62094	66.103 69.263 69.269 69.277 69.276 Pressure MPa .977 .978	214.525 215.706 215.376 214.975 214.553 Temperature K 234.956 234.383 233.637	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 Density mol/L .5207 .5225 .5244	.74729 .64455 .97469 .85686 .74659 .64403	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634	.001 .001 .001 .001 .001 .001 STAT	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093	66.103 69.263 69.269 69.277 69.276 Pressure MP# .977 .978 .978	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 Density mol/L .5207 .5225 .5244 .5261	.74729 .64455 .97469 .85686 .74659 .64403 Power W/m .13003 .10772 .08761	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634	.001 .001 .001 .001 .001 .001 STAT	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20
65004 65003 65002 65001 Run Pt. 62096 62095 62094	66.103 69.263 69.269 69.277 69.276 Pressure MPa .977 .978	214.525 215.706 215.376 214.975 214.553 Temperature K 234.956 234.383 233.637	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 Density mol/L .5207 .5225 .5244	.74729 .64455 .97469 .85686 .74659 .64403	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634	.001 .001 .001 .001 .001 .001 STAT	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092	66.103 69.263 69.269 69.277 69.276 Pressure MP9 .977 .978 .978 .979 3.145	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 236.032	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 Density TOI/L .5207 .5225 .5244 .5261 1.8367	.74729 .64455 .974659 .85686 .74659 .64403 Power W/m .13003 .10772 .0875 .20927	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02634	.001 .001 .001 .001 .001 .001 STAT	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091	66.103 69.263 69.269 69.277 69.276 Pressure MP8 .977 .978 .978 .979 3.145 3.146	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 Density mol/L .5207 .5225 .5244 .5261 1.8367 1.8457	.74729 .64455 .97469 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .18078	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945	.001 .001 .001 .001 .001 .001 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02934	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62090	66.103 69.263 69.269 69.277 69.276 Pressure MP9 .977 .978 .978 .979 3.145 3.146 3.147	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.316 234.753	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 Density mol/L .5207 .5225 .5244 .5261 1.8367 1.8457 1.8534	.74729 .64455 .97469 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .18078 .15426	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945 .02945	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02942 .02938	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091	66.103 69.263 69.269 69.277 69.276 Pressure MP8 .977 .978 .978 .979 3.145 3.146	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.261	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 Density mol/L .5207 .5225 .5244 .5261 1.8367 1.8457	.74729 .64455 .97469 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .18078	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945	.001 .001 .001 .001 .001 .001 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02934	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62090 62089	66.103 69.263 69.269 69.277 69.276 Pressure MP9 .977 .978 .978 .979 3.145 3.146 3.147	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.261	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 Density mol/L .5207 .5225 .5244 .5261 1.8367 1.8457 1.84534 1.8598	.74729 .64455 .97469 .85686 .74659 .64403 Power y/m .13003 .10772 .08761 .06955 .20927 .18078 .15426 .12990	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945 .02945 .02935	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02934 .02942	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62080 62080 62080	66.103 69.263 69.269 69.277 69.276 Pressure MP9 .977 .978 .978 .978 .979 3.145 3.146 3.147 3.148 5.135	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.316 234.753 234.261 235.158	23.1052 23.2560 23.2560 23.2748 23.2946 23.3164 Density TOI/L .5207 .5225 .5244 .5261 1.8367 1.8457 1.8598 3.3495	.74729 .64455 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .18078 .15426 .12990	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02634 .02945 .02945 .02945 .02936 .03353	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .003 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02942 .02938 .02944 .03351	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62090 62089 62089 62088 62087	66.103 69.263 69.269 69.277 69.276 Pressure MP8 .977 .978 .979 3.145 3.146 3.147 3.148 5.135	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.753 234.255	23.1052 23.1269 23.2748 23.2946 23.3164 Density mol/L .5207 .5225 .5244 .5261 1.8367 1.8457 1.8534 1.8598 3.3495 3.3495	.74729 .64455 .974659 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .18078 .15426 .12990 .20902 .18052	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945 .02945 .02935 .02936 .03353 .03361	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02652 .02649 .02653 .02934 .02934 .02934 .02938 .02944 .03351 .03364	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62089 62088 62088 62087 62088	66.103 69.263 69.269 69.277 69.276 Pressure MD9 .977 .978 .978 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.261 235.158 234.2655 234.220	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 Density TOI/L .5207 .5225 .5244 .5261 1.8367 1.8457 1.8534 1.8598 3.3495 3.3495 3.3645	.74729 .64455 .97469 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .15426 .12990 .21905 .21905 .15411	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945 .02935 .02936 .03353 .03361	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02942 .02938 .02944 .03351 .03364	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62090 62089 62089 62088 62087	66.103 69.263 69.269 69.277 69.276 Pressure MP8 .977 .978 .979 3.145 3.146 3.147 3.148 5.135	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.753 234.255	23.1052 23.1269 23.2748 23.2946 23.3164 Density mol/L .5207 .5225 .5244 .5261 1.8367 1.8457 1.8534 1.8598 3.3495 3.3495	.74729 .64455 .974659 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .18078 .15426 .12990 .20902 .18052	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02634 .02632 .02945 .02945 .02936 .03353 .03361	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02652 .02649 .02653 .02934 .02934 .02934 .02938 .02944 .03351 .03364	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62089 62088 62087 62087 62086 62085	66.103 69.263 69.269 69.277 69.276 Pressure MP9 .977 .978 .979 3.145 3.147 3.148 5.135 5.135 5.135	214.525 215.706 215.374 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 236.032 235.316 234.753 234.261 235.158 234.261 235.258	23.1052 23.2560 23.2560 23.2748 23.2946 23.3164 23.3164 23.2946 23.2946 23.2946 23.2946 23.2946 23.2946 25.207 25.	.74729 .64455 .97469 .85686 .74659 .64403 Power y/m .13003 .10772 .08761 .06955 .20927 .18078 .12990 .20902 .18052 .15411 .12978	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02634 .02632 .02945 .02945 .02936 .03353 .03361	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .003 .002 .002 .003	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02942 .02938 .02944 .03351 .03364 .03368	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62089 62089 62087 62086 62085 62084	66.103 69.263 69.269 69.277 69.276 Pressure MP9 .977 .978 .978 .979 3.145 3.146 3.147 3.146 3.147 3.148 5.135 5.135 5.135	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.261 235.2158 234.655 234.20 233.740 236.400	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 23.3164 23.2946 23.3164 25.207	.74729 .64459 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .18078 .15426 .12990 .20902 .18052 .15411 .12978 .34399	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02634 .02632 .02945 .02945 .02945 .02936 .03353 .03361 .03361 .03361	.001 .001 .001 .001 .001 .001 .002 .003 .004 .004 .006 .001 .002 .002 .002 .002 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m·K .02653 .02652 .02649 .02653 .02934 .02942 .02938 .02944 .03351 .03364 .03368 .03373 .03829	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62090 62089 62080 62087 62086 62085 62084 62083	66.103 69.263 69.269 69.277 69.276 Pressure MP8 .977 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.753 234.220 235.456 234.220 233.740 236.400 235.396	23.1052 23.1269 23.2748 23.2946 23.3164 23.3164 23.3164 23.3164 23.3164 25.255 25.261 1.8367 1.8534 1.8534 1.8595 3.3495 3.3495 3.3495 3.3495 3.3495 3.3495 3.3495 3.3164	.74729 .64455 .97469 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .18078 .12990 .18052 .15411 .12990 .18052 .15411 .12978 .27225	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945 .02945 .02945 .02945 .02936 .03361 .03361 .03361 .03839 .03946	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .002 .002 .003	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02934 .02934 .02934 .03351 .03364 .03368 .03373 .03829 .03943	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62089 62088 62087 62088 62085 62085 62085 62083 62082	66.103 69.263 69.269 69.277 69.276 Pressure MP9 .977 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.131	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.261 235.2158 234.655 234.20 233.740 236.400	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 23.3164 23.2946 23.3164 25.207	.74729 .64459 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .18078 .15426 .12990 .20902 .18052 .15411 .12978 .34399	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02634 .02632 .02945 .02945 .02945 .02936 .03353 .03361 .03361 .03361	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .002 .003 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02942 .02938 .02944 .03351 .03364 .03368 .03373 .03829 .03943	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72 .67
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62089 62088 62087 62088 62085 62085 62085 62083 62082	66.103 69.263 69.269 69.277 69.276 Pressure MP9 .977 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.131	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.261 235.158 234.2655 234.220 233.740 236.400 235.396 234.339	23.1052 23.1269 23.2748 23.2746 23.2746 23.3164 23.3164 23.3164 23.3164 25.207 25.225 25.244 25.267 26.8367 1.8367 1.8534 1.8598 3.3495 3.3495 3.3495 3.3776 3.3776 3.3723 5.1611 5.2257 5.2257	.74729 .64455 .97469 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .15426 .12990 .20902 .15411 .12978 .34399 .27893	.15016 .15037 .15259 .15329 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945 .02945 .02945 .02936 .03361 .03361 .03361 .03861 .03861 .0389	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .002 .003 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02942 .02938 .02944 .03351 .03364 .03368 .03373 .03829 .03943	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72 .67
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62089 62088 62087 62088 62085 62084 62085 62084 62085 62086 6208	66.103 69.263 69.269 69.277 69.276 Pressure MP9 .977 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.129 7.121	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.032 235.152 235.216 234.261 235.158 234.261 235.158 234.261 235.159 234.261 235.20 233.740 236.400 235.396 234.339 233.533	23.1052 23.2560 23.2560 23.2748 23.2946 23.3164 23.3164 23.2946 23.3164 25.207 25.207 25.205 25.244 25.2461 1.8367 1.8457 1.8598 3.36495 3.364	-74729 .64455 .97469 .85686 .74659 .64403 Power y/m .13003 .10772 .08761 .06955 .20927 .18078 .12990 .20902 .18411 .12978 .34399 .27225 .20853 .2	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02634 .02632 .02945 .02945 .02936 .03353 .03361 .03361 .03361 .03839 .03946 .03952 .04043	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .003 .002 .002 .003 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02942 .02938 .02944 .03351 .03364 .03368 .03373 .03829 .03943	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72 .67 .38 2.26
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62080 62087 62088 62087 62088 62085 62082 62082 62082 62081 62080	66.103 69.263 69.269 69.277 69.276 9.276 977 .978 .978 .979 3.145 3.146 3.147 3.146 3.147 3.148 5.135 5.135 5.135 5.135 7.129 7.129 7.129 7.129 7.129 7.129	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 236.032 235.316 234.753 234.753 234.220 235.158 234.655 234.220 235.3740 236.400 235.396 234.339 233.333 235.044	23.1052 23.1269 23.2748 23.2746 23.2746 23.3164 23.3164 23.2946 23.3164 25.255 25.255 25.256 1.8367 1.8598 3.3495 3.3495 3.3763 3.3723 5.1611 5.2257 5.257 5.257 5.2973 7.9786	.74729 .64455 .974659 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .18078 .15426 .12990 .2902 .18052 .15411 .12978 .34399 .27225 .20893 .15405 .34344	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02645 .02634 .02634 .02632 .02945 .02945 .02945 .02936 .03353 .03361 .03361 .03361 .03839 .03946 .03952 .04043 .04971	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .003 .002 .003 .002 .003	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m·K .02653 .02652 .02649 .02653 .02934 .02942 .02938 .02944 .03351 .03364 .03368 .03373 .03829 .03943 .03957 .04971	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72 .67 .38 2.26 14
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62080 62087 62086 62087 62086 62083 62082 62081 62081 62080 62080 62080	66.103 69.263 69.269 69.277 69.276 Pressure MP8 .977 .978 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.129 7.131 7.132 9.424 9.425	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.032 235.316 234.753 234.753 234.220 235.158 234.220 235.36,400 235.396 234.339 233.5396 234.339 235.044 235.044	23.1052 23.1269 23.2748 23.2746 23.2746 23.3164 23.3164 23.3164 23.3164 25.255 25.261 1.8367 1.8457 1.8534 1.8534 1.8595 3.3495 3.3495 3.3495 3.3495 3.3495 3.3645 3.3776 3.3923 5.1611 5.2257 5.2973 5.3543 7.9786 8.0886	.74729 .64455 .974659 .85686 .74659 .64403 .10772 .08761 .06955 .20927 .18078 .15426 .12990 .18052 .15411 .12978 .27225 .20893 .15405 .20893 .34344 .27190	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945 .02945 .02945 .02945 .02936 .03361 .03361 .03361 .03361 .03839 .03946 .03952 .04043 .04971	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .002 .002 .003 .004 .006 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m·K .02653 .02652 .02649 .02653 .02934 .02934 .02942 .02938 .02944 .03351 .03364 .03368 .03373 .03829 .03957 .04053 .04971	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72 .67 .38 2.26 14 1.63
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62080 62087 62088 62087 62088 62085 62082 62082 62082 62081 62080	66.103 69.263 69.269 69.277 69.276 9.276 977 .978 .978 .979 3.145 3.146 3.147 3.146 3.147 3.148 5.135 5.135 5.135 5.135 7.129 7.129 7.129 7.129 7.129 7.129	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 236.032 235.316 234.753 234.753 234.220 235.158 234.655 234.220 235.3740 236.400 235.396 234.339 233.333 235.044	23.1052 23.1269 23.2748 23.2746 23.2746 23.3164 23.3164 23.2946 23.3164 25.255 25.255 25.256 1.8367 1.8598 3.3495 3.3495 3.3763 3.3723 5.1611 5.2257 5.257 5.257 5.2973 7.9786	.74729 .64455 .974659 .85686 .74659 .64403 .10772 .08761 .06955 .20927 .18078 .15426 .12990 .18052 .15411 .12978 .27225 .20893 .15405 .20893 .34344 .27190	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02645 .02634 .02634 .02632 .02945 .02945 .02945 .02936 .03353 .03361 .03361 .03361 .03839 .03946 .03952 .04043 .04971	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .003 .002 .003 .002 .003	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m·K .02653 .02652 .02649 .02653 .02934 .02942 .02938 .02944 .03351 .03364 .03368 .03373 .03829 .03943 .03957 .04971	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72 .67 .38 2.26 14
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62089 62088 62087 62088 62085 62084 62085 62086 62086 62086 62087 62080 62080 62080 62080 62080 62080 62080 62080 62080 62080 62080 62080 62080 62080	66.103 69.263 69.269 69.277 69.276 Pressure MP8 .977 .978 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.129 7.131 7.132 9.424 9.425 9.425	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.261 235.158 234.200 235.3400 235.396 234.339 233.533 235.094 234.249 233.554	23.1052 23.1269 23.2748 23.2746 23.2746 23.2946 23.3164 Density mol/L .5207 .5225 .5244 .5261 1.8367 1.8457 1.8534 1.8598 3.3495 3.3495 3.3645 3.3776 3.3923 5.1611 5.2257 5.2973 5.3543 7.9786 8.0886 8.1888	.74729 .64455 .97469 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .06955 .20927 .18078 .12990 .20902 .18052 .18541 .12978 .34399 .27225 .20893 .15405 .34344 .27190 .20877	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02632 .02945 .02945 .02936 .03353 .03361 .03361 .03361 .03361 .03839 .03946 .03952 .04943 .04971 .05104	.001 .001 .001 .001 .001 .001 .002 .002	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02934 .02938 .02944 .03351 .03368 .03373 .03829 .03957 .04053 .04971	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 .61 45 .41 .67 .68 .70 -1.72 .67 .38 2.26 14 1.63 38
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 62089 62089 62088 62085 62085 62086 62086 62086 62086 62086 62087 62080 6208	66.103 69.263 69.269 69.277 69.276 9.276 977 .978 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.129 7.131 7.132 9.424 9.425 9.427	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.316 234.753 234.261 235.158 234.655 234.655 234.655 234.655 234.383 235.396 233.740 236.400 235.396 244.333 235.396 234.249 233.533 235.044 234.249 233.554 232.938	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 23.3164 23.2946 23.3164 25.207 25.205 25.244 25.2461 1.8367 1.8457 1.8598 3.36495 3.36	.74729 .64455 .97469 .85686 .74659 .64403 Power y/m .13003 .10772 .08761 .160955 .20927 .18078 .12990 .20902 .18052 .15415 .2990 .27225 .20827 .20877 .34344 .27190 .20877 .15395	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02645 .02634 .02632 .02945 .02945 .02936 .03361 .03361 .03361 .03361 .03361 .03839 .03946 .03952 .04971 .05104 .05029	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .003 .002 .003 .002 .003 .002 .003 .004	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02652 .02653 .02934 .02942 .02938 .02944 .03351 .03364 .03373 .03829 .03943 .03957 .04053 .04971 .05105	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72 .68 .70 -1.72 .67 .38 2.26 14 1.63 38 -1.35
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62090 62089 62089 62087 62086 62087 62086 62087 62086 62087 62086 62087 62086 62087 62086 62079 62079 62078	66.103 69.263 69.269 69.277 69.276 9.276 977 .978 .978 .979 3.145 3.146 3.147 3.146 3.147 3.148 5.135 5.135 5.135 5.135 7.129	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 236.032 235.316 234.753 234.220 235.158 234.220 235.158 234.220 235.364 234.339 235.396 234.339 235.396 234.220	23.1052 23.1269 23.2748 23.2746 23.2746 23.3164 23.3164 23.2946 23.3164 25.207 25.207 25.207 25.207 25.207 25.207 25.207 25.207 25.207 26.207	.74729 .64455 .974659 .85686 .74659 .64403 Power W/m .13003 .10772 .08761 .20927 .18078 .15426 .12990 .18052 .15411 .12978 .34399 .27225 .20893 .15405 .34344 .27190 .20877 .15395 .42343	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02634 .02634 .02945 .02945 .02945 .02936 .03353 .03361 .03361 .03361 .03361 .03361 .03839 .03946 .03952 .04971 .05104 .05041 .05049 .05049 .05049	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .002 .003 .002 .003 .004 .006 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m·K .02653 .02652 .02649 .02653 .02934 .02934 .02942 .02938 .02944 .03351 .03364 .03368 .03373 .03829 .03957 .04971 .05105 .05043	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72 .67 .38 2.26 14 1.63 38 -1.35 32
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 62089 62089 62088 62085 62085 62086 62086 62086 62086 62086 62087 62080 6208	66.103 69.263 69.269 69.277 69.276 Pressure MP9 .977 .978 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.129 7.129 7.131 7.132 9.425 9.425 9.426 9.427 11.469 11.470	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.316 234.753 234.261 235.158 234.655 234.655 234.655 234.655 234.383 235.396 233.740 236.400 235.396 244.333 235.396 234.249 233.533 235.044 234.249 233.554 232.938	23.1052 23.1269 23.2560 23.2748 23.2946 23.3164 23.3164 23.2946 23.3164 25.207 25.205 25.244 25.2461 1.8367 1.8457 1.8598 3.36495 3.36	.74729 .64455 .97469 .85686 .74659 .64403 Power y/m .13003 .10772 .08761 .160955 .20927 .18078 .12990 .20902 .18052 .15415 .2990 .27225 .20827 .20877 .34344 .27190 .20877 .15395	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02645 .02634 .02632 .02945 .02945 .02936 .03361 .03361 .03361 .03361 .03361 .03839 .03946 .03952 .04971 .05104 .05029	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .003 .002 .003 .002 .003 .002 .003 .004	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02652 .02653 .02934 .02942 .02938 .02944 .03351 .03364 .03373 .03829 .03943 .03957 .04053 .04971 .05105	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72 .68 .70 -1.72 .67 .38 2.26 14 1.63 38 -1.35
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 42091 62080 62087 62088 62087 62088 62082 62081 62081 62082 62081 62082 62081 62082 62081 62082 62081 62082 62083 62082 62083 62083 62084 62085 62087 62086 62087 62086 62087 62078 62078	66.103 69.263 69.269 69.277 69.276 Pressure MP9 .977 .978 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.129 7.129 7.131 7.132 9.425 9.425 9.426 9.427 11.469 11.470	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.220 235.158 234.220 235.158 234.220 235.36400 236.400 235.396 234.339 235.396 234.220 233.755 234.220 233.755 234.220 233.755 234.220 233.755 234.220 233.755 234.220 233.755 234.220 235.396 234.339 235.396 234.339 235.396 234.249 233.554 235.259 234.432	23.1052 23.1269 23.2748 23.2746 23.2746 23.2746 23.2746 23.2746 23.2946 23.3164 23.2946 23.	.74729 .64455 .974659 .85686 .74659 .64403 .10772 .08761 .06955 .20927 .18078 .15426 .129902 .18522 .15411 .12978 .27225 .20893 .15434 .27190 .20877 .154343 .27190 .20877 .20873 .34344 .27190 .20877 .42343 .34347	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945 .02945 .02945 .02945 .02936 .03353 .03361 .03361 .03361 .03361 .03839 .03946 .03952 .04043 .04971 .05029 .05058	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .002 .003 .004 .006 .001 .006 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m·K .02653 .02652 .02649 .02653 .02934 .02934 .02942 .02938 .02944 .03351 .03364 .03368 .03373 .03829 .03957 .04053 .04971 .05105 .05043 .0505858 .05903	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72 .67 .38 2.26 14 1.63 38 -1.35 32 37
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 62089 62089 62088 62087 62086 62085 62086 62085 62086 62087 62080 62079 62079 62079 62077 62077 62075 62075	66.103 69.263 69.269 69.277 69.276 99.276 977 .978 .978 .979 3.145 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.129 7.129 7.131 7.132 9.425 9.425 9.425 9.427 11.469 11.470	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.261 235.158 234.2655 234.220 233.740 236.400 235.396 234.339 233.533 235.034 234.249 233.554 234.249 233.554 234.249 233.554 234.429 233.788	23.1052 23.1269 23.2748 23.2746 23.2746 23.2746 23.2746 23.2746 .5207 .5225 .5244 .5261 1.8367 1.8457 1.8598 3.3645 3.3645 3.3645 3.3776 3.3923 5.1611 5.2257 5.3543 7.9786 8.0888 8.2807 10.3682 10.5075 10.6182	.74729 .64455 .97469 .85686 .74659 .64403 Power y/m .13003 .10772 .08761 .06955 .20927 .18078 .12990 .20902 .18052 .12978 .34399 .27225 .34344 .27180 .20877 .15395 .42343 .343447 .27188	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02632 .02945 .02936 .03361 .03361 .03361 .03361 .03361 .03361 .03952 .04043 .04971 .05104 .05041 .05029 .05988 .05974	.001 .001 .001 .001 .001 .001 .002 .003 .004 .002 .003 .002 .003 .002 .003 .002 .003 .004 .006 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02944 .03351 .03368 .03373 .03829 .03943 .03957 .04971 .05105	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 60 41 61 45 .41 .67 .68 .70 -1.72 .67 .38 2.26 14 1.63 38 -1.35 32 37
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 62089 62089 62088 62087 62086 62085 62086 62087 62086 62087 62086 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62078 62078 62077 62076 62077	66.103 69.263 69.269 69.277 69.276 9.276 977 .978 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.131 7.132 9.424 9.425 9.427 11.469 11.470 11.471	214.525 215.706 215.349 214.975 214.553 Tempersture K 234.956 234.383 233.637 233.152 235.316 234.753 234.261 235.316 234.753 234.655 234.655 234.655 234.655 234.261 235.3740 235.396 233.3740 236.400 235.396 244.333 235.396 244.249 233.533 235.044 234.249 233.554 232.938 235.259 234.488 233.488 233.488 233.488	23.1052 23.1269 23.2748 23.2746 23.2746 23.2746 23.2746 23.2746 23.2746 23.2746 23.2746 22.274 22.274 22.277 23.2746 23.274	.74729 .64455 .974659 .85686 .74659 .64403 Power V/m .13003 .10772 .08761 .12990 .20927 .18078 .12990 .20902 .18052 .15415 .2978 .34399 .27225 .20865 .20865	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermol Conductivity W/m.K .02653 .02645 .02634 .02634 .02634 .02635 .02945 .02945 .02936 .03361 .03361 .03361 .03361 .03361 .03361 .0346 .03952 .04043 .04971 .05104 .05029 .05858 .05903 .05974 .05926	.001 .001 .001 .001 .001 .001 .002 .003 .004 .001 .002 .002 .003 .002 .003 .002 .003 .004 .006 .001 .006 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m. K .02653 .02652 .02649 .02653 .02934 .02944 .03351 .03364 .03373 .03829 .03943 .03957 .04053 .04971 .05105 .05031 .05858 .05903	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .2060416145 .41 .67 .68 .70 -1.72 .67 .38 2.2614 1.6338 -1.353237 .18 -1.20
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62090 62089 62087 62086 62087 62086 62087 62088 62087 62088 62087 62088 62087 62079 62079 62078 62075 62075 62075 62075	66.103 69.263 69.269 69.277 69.276 9.276 977 .978 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 5.135 7.129 7.129 7.129 7.129 7.129 7.131 7.132 9.424 9.425 9.425 9.426 9.427 11.469 11.470 11.471 11.472 13.600	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.220 235.158 234.220 235.158 234.220 233.740 236.400 235.396 234.339 233.554 234.249 233.554 232.259 234.432 233.759 234.432 233.759 234.432 233.759 234.432 233.759 234.432 233.755	23.1052 23.1269 23.2748 23.2746 23.2746 23.2746 23.2746 23.2746 .5207 .5225 .5244 .5261 1.8367 1.8457 1.8598 3.3645 3.3645 3.3645 3.3776 3.3923 5.1611 5.2257 5.3543 7.9786 8.0888 8.2807 10.3682 10.5075 10.6182	.74729 .64455 .97469 .85686 .74659 .64403 Power y/m .13003 .10772 .08761 .06955 .20927 .18078 .12990 .20902 .18052 .12978 .34399 .27225 .34344 .27180 .20877 .15395 .42343 .343447 .27188	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02632 .02945 .02936 .03361 .03361 .03361 .03361 .03361 .03361 .03952 .04043 .04971 .05104 .05041 .05029 .05988 .05974	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .003 .002 .003 .004 .006 .001 .001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m·K .02653 .02652 .02649 .02653 .02934 .02934 .02934 .02934 .02934 .03351 .03364 .03368 .03373 .03829 .03957 .04971 .05105 .05031 .05053 .05975	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 .60416145 .41 .67 .68 .70 -1.72 .67 .38 .2.2614 1.6338 -1.353237 .18 -1.20 .12
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62092 62089 62089 62088 62087 62086 62085 62086 62087 62086 62087 62086 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62087 62078 62078 62077 62076 62077	66.103 69.263 69.269 69.277 69.276 9.276 977 .978 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.131 7.132 9.424 9.425 9.427 11.469 11.470 11.471	214.525 215.706 215.349 214.975 214.553 Tempersture K 234.956 234.383 233.637 233.152 235.316 234.753 234.261 235.316 234.753 234.655 234.655 234.655 234.655 234.261 235.3740 235.396 233.3740 236.400 235.396 244.333 235.396 244.249 233.533 235.044 234.249 233.554 232.938 235.259 234.488 233.488 233.488 233.488	23.1052 23.1269 23.2748 23.2746 23.2746 23.2746 23.2746 23.2746 23.2746 23.2746 23.2746 23.2746 23.2746 24.5257 25.261 1.8534	.74729 .64455 .974659 .85686 .74659 .64403 Power .13003 .10772 .0876 .12990 .18078 .15426 .12990 .18052 .15411 .12978 .34349 .2725 .20893 .15405 .34344 .27190 .20877 .15395 .42343 .34347 .27188 .20865 .51176	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02634 .02634 .02635 .02945 .02945 .02945 .02936 .03353 .03361 .03361 .03361 .03361 .03361 .03361 .03461 .03946 .03952 .04971 .05104 .05041 .05041 .05041 .05049 .05926 .06554	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .003 .002 .003 .004 .006 .001 .001 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m. K .02653 .02652 .02649 .02653 .02934 .02944 .03351 .03364 .03373 .03829 .03943 .03957 .04053 .04971 .05105 .05031 .05858 .05903	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .2060416145 .41 .67 .68 .70 -1.72 .67 .38 .22614 1.6338 -1.353237 .18 -1.20
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62099 62089 62087 62086 62085 62085 62086 62085 62086 62087 62080 62080 62080 62079 62079 62079 62079 62079 62079 62079	66.103 69.263 69.269 69.277 69.276 9.276 9.276 9.77 9.978 9.978 9.979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 5.135 7.129 7.129 7.129 7.131 7.132 9.424 9.425 9.426 9.427 11.470 11.470 11.471 13.600 13.600	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.220 235.158 234.220 235.158 234.220 233.758 234.220 233.758 234.220 233.758 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.259 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 235.396 236.400 235.396 234.249 233.554 235.558 235.558 235.558 235.558 236.555 234.841	23.1052 23.1269 23.2748 23.2746 23.2746 23.2746 23.2746 23.2746 23.2946 23.2946 23.2946 23.2946 23.2946 23.2946 23.2946 25.255 10.8457 1.8534 1.8536	.74729 .64455 .974659 .85686 .74659 .64403 .10772 .08761 .06955 .20927 .18078 .15426 .129902 .18052 .15411 .12978 .2725 .20873 .34349 .27190 .20877 .15343 .27188 .20875 .42343 .27188 .20875 .51176 .42330	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945 .02945 .02945 .02945 .02936 .03353 .03361 .03361 .03361 .03361 .03839 .03946 .03952 .04043 .04971 .05029 .05958 .05903 .05974 .05926 .06603	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .003 .002 .003 .004 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m·K .02653 .02652 .02649 .02653 .02934 .02934 .02934 .02934 .03351 .03364 .03368 .03373 .03829 .03943 .03957 .04053 .04971 .05105 .05043 .05975 .05903 .05975 .05927 .06552 .06603	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 .60416145 .41 .67 .68 .70 -1.72 .67 .38 .2.2614 1.6338 -1.353237 .18 -1.20 .12 .29
65004 65003 65002 65001 8un Pt. 62096 62095 62094 62093 62092 62089 62089 62088 62087 62086 62085 62086 62085 62086 62087 62080 62077 62070 62073 62077 62073 62071 62071 62071	66.103 69.263 69.269 69.277 69.276 9.276 9.276 9.978 .978 .979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 7.129 7.129 7.129 7.131 7.132 9.425 9.425 9.425 9.425 9.427 11.470 11.471 11.472 13.600 13.600 13.600	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.261 235.158 234.2655 234.220 233.740 236.400 235.396 234.339 233.533 235.034 234.249 233.554 234.249 233.554 234.249 233.554 234.249 233.554 234.249 233.554 234.249 233.554 234.249 233.554 234.432 233.788 233.227 235.523 234.841 234.078	23.1052 23.1269 23.2748 23.2746 23.2746 23.2946 23.3164 Density TOI/L .5207 .5225 .5244 .8457 1.8457 1.8457 1.8457 1.8457 1.8457 1.8457 1.8457 1.8457 1.8457 1.8457 1.8458 8.3495 3.36495 3.36495 3.3776 3	.74729 .64455 .97469 .85686 .74659 .64403 .10772 .08761 .06955 .20927 .18078 .12990 .20902 .18052 .15415 .12978 .34399 .27283 .15405 .34344 .27188 .20865 .51176 .2330 .34350	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02632 .02945 .02945 .02945 .02936 .03361 .03361 .03361 .03361 .03361 .03952 .04043 .04971 .05104 .05104 .05029 .05084 .05084 .05084 .05094 .05094 .05094 .05094 .05094 .05094 .05094 .05094 .05094 .05094 .05094 .05094 .05094 .05094 .05094 .05094 .060	.001 .001 .001 .001 .001 .001 .002 .003 .002 .002 .003 .002 .003 .002 .003 .004 .006 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m.K .02653 .02652 .02649 .02653 .02934 .02944 .03351 .03364 .03351 .03368 .03373 .03829 .03943 .03957 .04053 .04971 .05105 .05043 .05903 .05975 .05903 .05975 .05927 .06552 .06603 .06645	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .2060416145 .41 .67 .68 .70 -1.72 .67 .38 2.2614 1.6338 -1.353237 .18 -1.20 .12 .29 .23
65004 65003 65002 65001 Run Pt. 62096 62095 62094 62093 62099 62089 62087 62086 62085 62085 62086 62085 62086 62087 62080 62080 62080 62079 62079 62079 62079 62079 62079 62079	66.103 69.263 69.269 69.277 69.276 9.276 9.276 9.77 9.978 9.978 9.979 3.145 3.146 3.147 3.148 5.135 5.135 5.135 5.135 7.129 7.129 7.129 7.131 7.132 9.424 9.425 9.426 9.427 11.470 11.470 11.471 13.600 13.600	214.525 215.706 215.349 214.975 214.553 Temperature K 234.956 234.383 233.637 233.152 235.032 235.316 234.753 234.220 235.158 234.220 235.158 234.220 233.758 234.220 233.758 234.220 233.758 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.259 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 234.220 235.396 235.396 236.400 235.396 234.249 233.554 235.558 235.558 235.558 235.558 236.555 234.841	23.1052 23.1269 23.2748 23.2746 23.2746 23.2746 23.2746 23.2746 23.2946 23.2946 23.2946 23.2946 23.2946 23.2946 23.2946 25.255 10.8457 1.8534 1.8536	.74729 .64455 .974659 .85686 .74659 .64403 .10772 .08761 .06955 .20927 .18078 .15426 .129902 .18052 .15411 .12978 .2725 .20873 .34349 .27190 .20877 .15343 .27188 .20875 .42343 .27188 .20875 .51176 .42330	.15016 .15037 .15259 .15309 .15329 .15348 Experimental Thermal Conductivity W/m.K .02653 .02645 .02634 .02632 .02945 .02945 .02945 .02945 .02936 .03353 .03361 .03361 .03361 .03361 .03839 .03946 .03952 .04043 .04971 .05029 .05958 .05903 .05974 .05926 .06603	.001 .001 .001 .001 .001 .001 .002 .003 .004 .006 .001 .002 .002 .002 .003 .002 .003 .004 .001 .001 .001	.15017 .15043 .15251 .15305 .15329 .15353 Adjusted Thermal at a nominal Temperature of 235 K W/m·K .02653 .02652 .02649 .02653 .02934 .02934 .02934 .02934 .03351 .03364 .03368 .03373 .03829 .03943 .03957 .04053 .04971 .05105 .05043 .05975 .05903 .05975 .05927 .06552 .06603	.10 .06 .19 .36 .33 .28 Conductivity deviation from correlation percent .27 .20 .09 .20 .60416145 .41 .67 .68 .70 -1.72 .67 .38 .2.2614 1.6338 -1.353237 .18 -1.20 .12 .29

	15 750	225 251	10 (005		07172	0.01	071.71	.89
62068	15.750	235.351	13.6925	.51118		.001	.07171	
62067	15.750	234.621	13.7970	•42296	.07219	.001	•07221	• 96
62066	15.751	234.028	13.8826	.34302	.07238	.002	.07244	•76
62065	15.751	233.472	13.9629	.27164		.003	.07291	• 93
62064	17.692	235.036	14.7069	.51102	.07644	.001	•07644	1.01
62063	17.692	234.425	14.7865	.42271	•07687	.001	•07691	1.12
62062	17.693	233.812	14.8669	.34272	.07712	.002	.07721	.98
52061	17.593	233.349	14.9277	.27164		.002	•07753	1.00
62060	20.536	234.799	15.8346	.51100	.08188	.001	•08190	• 31
62059	20.535	234.255	15.8969	.42276		.001	.08279	. 95
62058	20.535	233.698	15.9611	.34284		• 002	.08331	1.11
62057	20.535	233.233	16.0146	.27156	.08348	•003	• 08366	1.14
	23.411	235.343	16.6432	.60773	.08734	.001	.08730	. 79
62056								
62055	23.411	234.724	16.7071	.51105	.08768	.001	.08771	.77
62054	23.411	234.109	16.7706	.42275	.08784	.001	•08794	• 55
		233.639	16.8190			.002	.08860	• 93
62053	23.410			• 34290				
62052	26.932	235.025	17.5263	.60728	• 09332	.001	•09332	.59
52051	26.932	234.553	17.5701	.51070	.09311	.001	.09316	.08
62050		234.168	17.6055	.42253	.09383	.001	.09393	.61
	26.932							
62049	26.931	233.546	17.6629	•34273	.09395	.002	•09413	• 36
62048	30.368	235.148	18.1965	.60725	.09844	.001	.09842	• 45
62047	30.366	234.592	18.2431	.51076	.09894	.001	.09899	.64
62045	30.361	234.248	18.2713	•42254	•09922	• 002	•09931	.73
62045	30.360	233.560	18.3291	.34268	.09935	•002	•09953	.47
62044	34.092	234.964	18.8346	.60778	.10331	.001	.10331	08
62043	34.091	234.389	18.8791	.51113	.10359	.001	.10367	12
62042	34.090	233.804	18.9244	.42296	.10395	.001	.10410	09
62041	34.089	233.473	18.9501	.34297	.10356	.002	.10376	65
62040	37.551	235.426	19.3017	.71222	•10755	.001	.10749	15
62039	37.547	234.763	19.3495	•60739	•10794	•001	•10797	12
62038	37.547	234.319	19.3817	.51071	.10824	.001	•10833	07
62037	37.543	233.849	19.4154			.001		30
				.42265	.10825		.10840	
62036	41.022	235.318	19.7569	.71224	.11189	.001	•11185	17
62035	41.021	234.701	19.7989	.60740	.11212	.001	•11216	26
62034	41.021	234.205	19.8330	.51079		.001	.11249	27
62033	41.018	233.707	19.8669	.42271	.11263	.002	.11280	30
62032	44.354	235.189	20.1521	•71220	•11637	.001	•11635	•26
62031	44.354	234.641	20.1878	.60716	•11599	.001	•11604	33
62030	44.351	234.130	20.2208	.51047	.11643	.001	.11654	19
62029	44.350	233.731	20.2467	.42248	•11693	.002	.11709	• 05
62028	47.931	235.016	20.5403	.71216	.12000	.001	•12000	14
62027	47.932	234.521	20.5712	.60724	.12028	.001	.12034	13
62026	47.927	234.030	20.6012	.51071	.12052	.002	.12064	15
62025	47.928	233.633	20.6258	.42257	•12049	•002	.12066	36
62024	51.244	234.971	20.8636	.71202	.12341	.001	•12341	26
62023	51.246	234.454	20.8946	.60714	.12389	.001	.12396	10
62022	51.243	234.029	20.9197		.12423			
				•51053		•001	.12435	01
62021	51.240	233.650	20.9420	.42240	•12465	. 002	•12482	•16
62020	55.105	235.440	21.1818	.82488	.12730	.001	.12725	09
62019	55.104	234.914	21.2117	.71153	.12766	.001	.12767	03
62018	55.102	234.391	21.2413	•60687	.12801	.001	.12808	• 02
62017	55.098		21.2657	•51030	.12822	.002	•12835	00
42014		233.958	CI # CO 7 !					
nzuin				.82494	-13073		.13060	
62016	58.418	235.316	21.4644	.82494	•13073	.001	.13069	01
62015	58.418 58.416	235.316 234.894	21.4644	.71153	.13080	.001 .001	.13081	01 13
	58.418	235.316	21.4644			.001		01
62015 62014	58.418 58.416 58.416	235.316 234.894 234.436	21.4644 21.4875 21.5128	.71153 .60661	•13080 •13120	.001 .001	.13081 .13127	01 13 01
62015 62014 62013	58.418 58.416 58.416 58.413	235.316 234.894 234.436 233.899	21.4644 21.4875 21.5128 21.5421	.71153 .60661 .51034	.13080 .13120 .13157	.001 .001 .001	•13081 •13127 •13170	01 13 01 .05
62015 62014 62013 62012	58.418 58.416 58.416 58.413 61.887	235.316 234.894 234.436 233.899 235.308	21.4644 21.4875 21.5128 21.5421 21.7356	.71153 .60661 .51034 .82502	.13080 .13120 .13157 .13415	.001 .001 .001 .002	.13081 .13127 .13170 .13411	01 13 01 .05
62015 62014 62013 62012 62011	58.418 58.416 58.416 58.413 61.887	235.316 234.894 234.436 233.899 235.308 234.767	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644	.71153 .60661 .51034 .82502 .71169	.13080 .13120 .13157 .13415 .13448	.001 .001 .001 .002 .001	.13081 .13127 .13170 .13411 .13451	01 13 01 .05 .09
62015 62014 62013 62012	58.418 58.416 58.416 58.413 61.887	235.316 234.894 234.436 233.899 235.308	21.4644 21.4875 21.5128 21.5421 21.7356	.71153 .60661 .51034 .82502	.13080 .13120 .13157 .13415	.001 .001 .001 .002 .001	.13081 .13127 .13170 .13411 .13451	01 13 01 .05 .09
62015 62014 62013 62012 62011 62010	58.418 58.416 58.416 58.413 61.887 61.887	235.316 234.894 234.436 233.899 235.308 234.767 234.277	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644 21.7903	.71153 .60661 .51034 .82502 .71169 .60696	.13080 .13120 .13157 .13415 .13448	.001 .001 .001 .002 .001	.13081 .13127 .13170 .13411 .13451 .13469	01 13 01 .05 .09 .11
62015 62014 62013 62012 62011 62010 62009	58.418 58.416 58.416 58.413 61.887 61.887 61.885 61.882	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644 21.7903 21.8097	.71153 .60661 .51034 .82502 .71169 .60696	.13080 .13120 .13157 .13415 .13448 .13461 .13451	.001 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469	01 13 01 .05 .09 .11 .01
62015 62014 62013 62012 62011 62010 62009 62008	58.418 58.416 58.416 58.413 61.887 61.885 61.882 65.387	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644 21.7903 21.8097 21.9966	.71153 .60661 .51034 .82502 .71169 .60696 .51024	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752	.001 .001 .002 .001 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463	01 13 01 .05 .09 .11 .01 21
62015 62014 62013 62012 62011 62010 62009	58.418 58.416 58.416 58.413 61.887 61.887 61.885 61.882	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644 21.7903 21.8097	.71153 .60661 .51034 .82502 .71169 .60696	.13080 .13120 .13157 .13415 .13448 .13461 .13451	.001 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469	01 13 01 .05 .09 .11 .01
62015 62014 62013 62012 62011 62010 62009 62008 62007	58.418 58.416 58.416 61.887 61.887 61.885 61.882 65.387 65.384	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780	.001 .001 .001 .002 .001 .001 .002 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749	01 13 01 .05 .09 .11 .01 21
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006	58.418 58.416 58.416 58.413 61.887 61.887 61.885 61.885 65.387 65.384	235.316 234.894 234.435 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207 22.0524	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834	.001 .001 .002 .001 .001 .001 .002 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783	01 13 01 .05 .09 .11 .01 21 .17
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005	58.418 58.416 58.416 58.413 61.887 61.887 61.885 61.885 65.387 65.384 65.382 65.381	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207 22.0207 22.0524 22.0677	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .60686 .71132 .60686	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807	.001 .001 .001 .002 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749	01 13 01 .05 .09 .11 .01 21
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006	58.418 58.416 58.416 58.413 61.887 61.887 61.885 61.885 65.387 65.384	235.316 234.894 234.435 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207 22.0524	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .60686 .71132 .60686	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807	.001 .001 .001 .002 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844	01 13 01 .05 .09 .11 .01 21 .17 .19
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004	58.418 58.416 58.413 61.887 61.887 61.882 65.387 65.384 65.382 65.381 68.761	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207 22.0524 22.0527 22.2299	.71153 .60661 .51034 .82502 .60696 .51024 .82466 .71132 .60686 .51016 .82419	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13837	.001 .001 .001 .002 .001 .001 .002 .001 .002 .002	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820	01 13 01 .05 .09 .11 .01 21 .17 .19 .33 .02
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004 62003	58.418 58.416 58.413 61.887 61.887 61.885 61.885 65.387 65.384 65.382 65.381 68.761 68.761	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.79966 22.0207 22.0524 22.0677 22.2299 22.2554	.71153 .60661 .51034 .82502 .71169 .51024 .82466 .71132 .60686 .51016 .82419 .71111	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080	.001 .001 .001 .002 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077	01 13 01 .05 .09 .11 .01 21 .17 .19 .33 .02
62015 62014 62013 62012 62011 62010 62009 62007 62006 62005 62004 62003 62003	58.418 58.416 58.413 61.887 61.887 61.887 61.882 65.387 65.384 65.382 65.381 68.761 68.761 68.757	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.268	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207 22.0524 22.0677 22.2299 22.22554 22.2783	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .11111	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080	.001 .001 .002 .001 .002 .001 .002 .001 .002 .002	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107	01 13 01 .05 .09 .11 .01 21 .17 .19 .33 .02
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004 62003	58.418 58.416 58.413 61.887 61.887 61.885 61.885 65.387 65.384 65.382 65.381 68.761 68.761	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.79966 22.0207 22.0524 22.0677 22.2299 22.2554	.71153 .60661 .51034 .82502 .71169 .51024 .82466 .71132 .60686 .51016 .82419 .71111	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080	.001 .001 .001 .002 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077	01 13 01 .05 .09 .11 .01 21 .17 .19 .33 .02
62015 62014 62013 62012 62011 62010 62009 62007 62006 62005 62004 62003 62003	58.418 58.416 58.413 61.887 61.887 61.887 61.882 65.387 65.384 65.382 65.381 68.761 68.761 68.757	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.268	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207 22.0524 22.0677 22.2299 22.22554 22.2783	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .11111	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080	.001 .001 .002 .001 .002 .001 .002 .001 .002 .002	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107	01 13 01 .05 .09 .11 .01 21 .17 .19 .33 .02 .37
62015 62014 62013 62012 62011 62010 62009 62007 62006 62005 62004 62003 62003	58.418 58.416 58.413 61.887 61.887 61.887 61.882 65.387 65.384 65.382 65.381 68.761 68.761 68.757	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.268	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207 22.0524 22.0677 22.2299 22.22554 22.2783	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .11111	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080	.001 .001 .002 .001 .002 .001 .002 .001 .002 .002	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107	01 13 01 .05 .09 .11 .01 21 .17 .19 .33 .02 .37 .34
62015 62014 62013 62012 62011 62010 62009 62007 62006 62005 62004 62003 62003	58.418 58.416 58.413 61.887 61.887 61.887 61.882 65.387 65.384 65.382 65.381 68.761 68.761 68.757	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.268	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207 22.0524 22.0677 22.2299 22.22554 22.2783	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .11111	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160	.001 .001 .002 .001 .002 .001 .002 .001 .002 .002	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004 62003 62002 62001	58.418 58.416 58.413 61.887 61.885 61.885 61.882 65.387 65.384 65.381 68.761 68.757 68.757	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.7996 22.0207 22.0524 22.0677 22.2299 22.2299 22.22783 22.3054	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160	.001 .001 .002 .001 .001 .001 .001 .002 .002	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35
62015 62014 62013 62012 62011 62010 62009 62007 62006 62005 62004 62003 62003	58.418 58.416 58.413 61.887 61.887 61.885 61.882 65.387 65.384 65.382 65.381 68.761 68.757 68.757	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207 22.0524 22.0677 22.2259 22.22554 22.2783 22.3054	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010	.13080 .13120 .13157 .13455 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160	.001 .001 .002 .001 .002 .001 .002 .001 .002 .002	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107 .14107 .14107	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004 62003 62002 62001	58.418 58.416 58.413 61.887 61.885 61.885 61.882 65.387 65.384 65.381 68.761 68.757 68.757	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.7996 22.0207 22.0524 22.0677 22.2299 22.2299 22.22783 22.3054	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160	.001 .001 .002 .001 .001 .001 .001 .002 .002	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004 62003 62002 62001	58.418 58.416 58.413 61.887 61.885 61.882 65.387 65.384 65.382 65.381 68.761 68.761 68.757 68.757	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.79966 22.0207 22.0524 22.0677 22.0527 22.2554 22.2783 22.3054	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010	.13080 .13120 .13157 .13455 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160	.001 .001 .002 .001 .001 .001 .001 .002 .002	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107 .14107 .14107	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004 62003 62002 62001	58.418 58.416 58.413 61.887 61.887 61.885 61.882 65.387 65.384 65.382 65.381 68.761 68.757 68.757	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.79966 22.0207 22.0524 22.0677 22.0527 22.2554 22.2783 22.3054	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010	.13080 .13120 .13157 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K	.001 .001 .002 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation percent
62015 62014 62013 62012 62011 62010 62009 62007 62006 62007 62006 62005 62002 62001 Run Pt.	58.418 58.416 58.413 61.887 61.885 61.885 61.882 65.387 65.384 65.382 65.381 68.761 68.761 68.757 68.757	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.7936 22.0207 22.0524 22.0677 22.2299 22.2554 22.2783 22.3054 Density mol/L	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .51016 .82419 .71111 .60649 .51010	.13080 .13120 .13157 .13451 .13451 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K	.001 .001 .002 .001 .001 .002 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation percent .70
62015 62014 62013 62012 62011 62010 62009 62007 62006 62005 62004 62002 62001 Run Pt.	58.418 58.416 58.413 61.887 61.887 61.885 61.882 65.387 65.384 65.382 65.381 68.761 68.757 68.757	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207 22.0524 22.0677 22.2299 22.2554 22.2783 22.3054	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010	.13080 .13120 .13157 .13451 .13451 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K	.001 .001 .002 .001 .001 .002 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m.K	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation percent .70 .75
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62005 62002 62001 Run Pt.	58.418 58.416 58.413 61.887 61.887 61.882 65.387 65.384 65.382 65.381 68.761 68.767 68.757 Pressure MPa 1.020 1.020 1.019	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.736 234.141 233.842 235.239 234.730 234.268 233.731	21.4644 21.4875 21.5128 21.5121 21.7356 21.7644 21.79966 22.0207 22.0524 22.0527 22.2554 22.2783 22.3054 Density mol/L .4946 .4968	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .51016 .82419 .71111 .70649 .51010	.13080 .13120 .13157 .13451 .13451 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K	.001 .001 .001 .002 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m.K	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation percent .70
62015 62014 62013 62012 62011 62010 62009 62007 62006 62005 62004 62002 62001 Run Pt.	58.418 58.416 58.413 61.887 61.887 61.882 65.387 65.384 65.382 65.381 68.761 68.767 68.757 Pressure MPa 1.020 1.019 1.019	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.7903 21.8097 21.9966 22.0207 22.0524 22.0677 22.2299 22.2554 22.2783 22.3054	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010	.13080 .13120 .13157 .13451 .13451 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K	.001 .001 .002 .001 .001 .002 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m.K	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation parcent .70 .75 .53
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004 62003 62002 62001 Run Pt.	58.418 58.416 58.413 61.887 61.887 61.882 65.387 65.384 65.382 65.381 68.761 68.767 68.757 Pressure MPa 1.020 1.019 1.019	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.79966 22.0207 22.0524 22.0627 22.0627 22.2554 22.2783 22.3054 Density mol/L .4946 .4968 .4985	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .51016 .71111 .60649 .51010	.13080 .13120 .13127 .13451 .13451 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K	.001 .001 .002 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m.K	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation parcent .70 .75 .53 .60
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004 62003 62002 62001 Run Pt.	58.418 58.416 58.413 61.887 61.885 61.882 65.387 65.384 65.382 65.381 68.761 68.761 68.757 Pressure MPa 1.020 1.019 1.019 2.714	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.79966 22.0207 22.0527 22.0527 22.0527 22.2554 22.2783 22.3054 Density mol/L .4966 .4964 .4968 .4985 1.3862	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010	.13080 .13120 .13127 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K	.001 .001 .002 .001 .001 .002 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m. K .02896 .02898 .02891 .02894 .03080	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation percent .70 .75 .53 .60 .21
62015 62014 62013 62012 62011 62010 62009 62005 62005 62004 62003 62002 62001 Run Pt.	58.418 58.416 58.413 61.887 61.887 61.885 61.882 65.387 65.384 65.382 65.381 68.761 68.757 Pressure MPa 1.020 1.019 2.714 2.714	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731 Temperature K	21.4644 21.4875 21.5128 21.5421 21.7356 21.7644 21.793 21.8097 21.9966 22.0207 22.0524 22.0677 22.2299 22.22554 22.2783 22.3054 Density mol/L .4946 .4968 .4985 1.3862 1.3913	.71153 .60661 .51034 .82502 .71169 .60696 .511024 .82466 .71132 .60686 .51016 .82419 .51010 .90649 .51010	.13080 .13120 .13127 .1345 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K .02906 .02900 .02887 .02881 .03098 .03081	.001 .001 .002 .001 .001 .002 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m.K	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation percent .70 .75 .53 .60 .2113
62015 62014 62013 62012 62011 62010 62009 62008 62005 62005 62005 62001 Run Pt. 61092 61091 61094 61093 61090 61088	58.418 58.416 58.413 61.887 61.887 61.882 65.387 65.384 65.382 65.381 68.761 68.767 68.757 Pressure MPa 1.020 1.019 1.019 1.019 2.714 2.716	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.736 234.141 233.842 235.239 234.730 234.268 233.731 Temperature K	21.4644 21.4875 21.5128 21.5121 21.7356 21.7644 21.79966 22.0207 22.0524 22.0577 22.2299 22.2554 22.2783 22.3054 Density mol/L .4966 .4968 .4968 .4968 .4968 1.3862 1.3895 1.3895	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010 Power W/m .14249 .11810 .09603 .07628 .19811 .16914 .14247	.13080 .13120 .13157 .1345 .1345 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K .02906 .02900 .02887 .02881 .03098 .03081	.001 .001 .001 .001 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m. K .02896 .02898 .02891 .02894 .03080	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation percent .70 .75 .53 .60 .21
62015 62014 62013 62012 62011 62010 62009 62005 62005 62004 62003 62002 62001 Run Pt.	58.418 58.416 58.413 61.887 61.887 61.885 61.882 65.387 65.384 65.382 65.381 68.761 68.757 Pressure MPa 1.020 1.019 2.714 2.714	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731 Temperature K	21.4644 21.4875 21.5128 21.5121 21.7356 21.7644 21.79966 22.0207 22.0524 22.0577 22.2299 22.2554 22.2783 22.3054 Density mol/L .4966 .4968 .4968 .4968 .4968 1.3862 1.3895 1.3895	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010 Power W/m .14249 .11810 .09603 .07628 .19811 .16914 .14247	.13080 .13120 .13157 .1345 .1345 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K .02906 .02900 .02887 .02881 .03098 .03081	.001 .001 .001 .001 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14107 .14107 .14107 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m.K .02896 .02898 .02891 .02894 .030080 .03071	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation parcent .70 .75 .53 .60 .2113 .04
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004 62003 62002 62001 Run Pt.	58.418 58.416 58.413 61.887 61.887 61.882 65.387 65.384 65.382 65.381 68.761 68.757 Pressure MPa 1.020 1.020 1.019 2.714 2.714 2.714 2.717	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.756 234.751 235.239 234.730 234.268 233.731 Temperature K	21.4644 21.4875 21.5128 21.55421 21.7356 21.7644 21.79966 22.0207 22.0524 22.0627 22.0527 22.2554 22.2783 22.3054 Density mol/L .4966 .4968	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .51016 .51010 .71111 .60649 .51010 .71111 .00649 .51010 .07628 .19811 .16914 .14247 .11810	.13080 .13120 .13127 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K .02906 .02900 .02887 .02881 .03098 .03081 .03080 .03076	.001 .001 .002 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m.K .02896 .02891 .02894 .03080 .03071 .03077	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation percent .70 .75 .53 .60 .2113 .04 .08
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004 62003 62002 62001 Run Pt. 61092 61091 61094 61093 61088 61088 61087 61086	58.418 58.416 58.416 58.413 61.887 61.885 61.882 65.387 65.384 65.382 65.381 68.761 68.767 68.757 Pressure MPa 1.020 1.019 1.019 2.714 2.714 2.714 2.714 2.717 4.718	235.316 234.894 234.894 234.894 233.899 235.308 234.767 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731 Temperature K 255.835 255.177 254.645 255.864 255.864 255.864 255.8777	21.4644 21.4875 21.5128 21.5121 21.7356 21.7644 21.79966 22.0207 22.0524 22.0627 22.2554 22.2783 22.3054 Density mol/L .4946 .4964 .4965 1.3862 1.3913 1.3966 2.5921	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010 .97628 .11810 .09603 .07628 .19811 .16914 .14247 .11810 .19790	.13080 .13120 .13127 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K .02906 .02900 .02887 .02881 .03098 .03081 .03080 .03076 .03381	.001 .001 .002 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m. K .02896 .02898 .02891 .02894 .03080 .03071 .03077 .03079 .03372	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation percent .70 .75 .53 .60 .2113 .04 .08
62015 62014 62013 62012 62011 62010 62009 62005 62005 62005 62004 62002 62001 Run Pt. 61092 61091 61094 61089 61087 61086 61085	58.418 58.416 58.416 58.413 61.887 61.885 61.882 65.387 65.384 65.382 65.381 68.761 68.757 Pressure MPa 1.020 1.019 2.714 2.714 2.716 2.717 4.718 4.721	235.316 234.894 234.436 233.899 235.308 234.767 234.277 233.911 235.226 234.756 234.141 233.842 235.239 234.268 233.731 Temperature K 255.835 255.177 254.645 253.943 256.518 255.237 255.237 255.237	21.4644 21.4875 21.5128 21.5121 21.7356 21.7644 21.7936 22.0207 22.0524 22.067 22.0524 22.2299 22.2554 22.2783 22.3054 Density mol/L .4946 .4968 .4985 1.3862 1.3913 1.3966 1.4006 2.5921 2.6022	.71153 .60661 .51034 .82502 .71169 .60696 .51016 .82419 .60686 .51016 .82419 .51010 .97603 .07628 .1810 .09603 .07628 .14247 .11810 .14247 .11810 .19790 .16888	.13080 .13120 .13127 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K .02906 .02900 .02887 .02881 .03081 .03080 .03076 .03381 .03367	.001 .001 .002 .001 .001 .002 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m.K .02896 .02898 .02891 .02894 .03077 .03077 .03077 .03077 .03372 .03364	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation parcent .70 .75 .53 .60 .2113 .04 .08 .52 .21
62015 62014 62013 62012 62011 62010 62009 62008 62007 62006 62005 62004 62003 62002 62001 Run Pt. 61092 61091 61094 61093 61088 61088 61087 61086	58.418 58.416 58.416 58.413 61.887 61.885 61.882 65.387 65.384 65.382 65.381 68.761 68.767 68.757 Pressure MPa 1.020 1.019 1.019 2.714 2.714 2.714 2.714 2.717 4.718	235.316 234.894 234.894 234.894 233.899 235.308 234.767 233.911 235.226 234.756 234.141 233.842 235.239 234.730 234.268 233.731 Temperature K 255.835 255.177 254.645 255.864 255.864 255.864 255.8777	21.4644 21.4875 21.5128 21.5121 21.7356 21.7644 21.79966 22.0207 22.0524 22.0627 22.2554 22.2783 22.3054 Density mol/L .4946 .4964 .4965 1.3862 1.3913 1.3966 2.5921	.71153 .60661 .51034 .82502 .71169 .60696 .51024 .82466 .71132 .60686 .51016 .82419 .71111 .60649 .51010 .97628 .11810 .09603 .07628 .19811 .16914 .14247 .11810 .19790	.13080 .13120 .13127 .13415 .13448 .13461 .13451 .13752 .13780 .13834 .13807 .14080 .14104 .14156 .14160 Experimental Thermal Conductivity W/m.K .02906 .02900 .02887 .02881 .03098 .03081 .03080 .03076 .03381	.001 .001 .002 .001 .001 .002 .001 .001	.13081 .13127 .13170 .13411 .13451 .13469 .13463 .13749 .13783 .13844 .13820 .14077 .14107 .14164 .14174 Adjusted Thermal at a nominal Temperature of 255 K W/m. K .02896 .02898 .02891 .02894 .03080 .03071 .03077 .03079 .03372	011301 .05 .09 .11 .0121 .17 .19 .33 .02 .37 .34 .53 .35 Conductivity deviation from correlation percent .70 .75 .53 .60 .2113 .04 .08

61083	4.732	254.209	2.6271	.11795	.03350	.004	•03359	12
61097	6.551	256.067	3.8324	.22926	.03709	•002	.03698	.68
61096	6.552	255.011	3.8646	.16905	.03707	•003	.03707	• 69
61095	6.555	254.140	3.8929	.11812	• 03697	•004	• 0 3 7 0 6	• 46
61079	6.558	253.452	3.9163	.07630	.03716	.008	•03732	. 98
61082	6.788	256.771	3.9825	.29824	.03763	.001	.03744	. 81
61081	6.788	255.56?	4.0205	.22895	.03765	•002	•03759	• 92
61080	6.789	254.504	4.0554	•16882	• 03768	• 0 0 3	•03773	1.04
61078	8.785	256.308	5.5387	.29843	.04254	.002	•04242	1.35
61077	8.785	255.358	5.5894	.22912	.04274	.003	.04271	1.62
61076	8.785	254.477	5.6379	•16903	•04276	•003	.04281	1.47
61075	8.786	253.831	5.6746	.11806	•04315	•006	•04325	2.21
61074	11.182	256.639	7.5248	.37633	.04911	.001	.04900	.15
61073	11.183	255.633	7.6096	.29800	.04934	.001	.04930	. 11
61072	11.183	254.824	7.6799	.22883	.04949	•001	• 04950	02
61071	11.187	254.114	7.7455	•16884	.04973	•002	•04979	•06
61070	13.268	256.101	9.2866	.37622	.05538	.001	.05532	42
61069	13.269	255.217	9.3799	.29802	.05549	.001	. 05548	75
61068	13.270	254.473	9.4601	.22888	.05559	•001	•05562	-1.02
61067	13.273	253.901	9.5237	.16887	.05589	•002	•05595	84
61066	15.396	256.416	10.7802	•46416	•06085	.001	•06076	33
61065	15.397	255.651	10.8652	.37648	.06112	.001	.06108	32
61064	15.399	254.967	10.9428	.29803	.06134	.001	.06134	35
61063	15.401	254.357	11.0123	.22883	.06167	•002	•06171	17
61062	17.518	256.151	12.0678	•46392	• 06596	.001	• 06587	• 10
61061	17.519	255.415	12.1484	.37629	.06619	.001	•06616	• 05
61060	17.521	254.730	12.2248	.29801	.06643	.001	.06645	•04
		254.159						
61059	17.522		12.2883	•22884	.06667	•001	•06673	• 09
61057	20.351	255.901	13.4372	•46368	.07195	0.000	•07187	•53
61056	20.352	255.130	13.5171	.37618	•07227	• 001	•07226	•58
61055	20.353	254.542	13.5789	.29782	.07266	.001	•07270	• 80
61058	20.351	254.029	13.6315	.22875	.07260	.001	.07269	• 46
61054	23.422	256.273	14.5472	• 56 06 2	•07746	0.000	•07732	• 74
61053	23.422	255.560	14.6155	•46396	.07781	•001	•07775	. 84
61052	23.423	254.902	14.5790	.37633	.07792	.001	•07793	.65
61051	23.423	254.313	14.7359	.29804	.07809	.001	.07817	. 57
61050	26 • 850	255.901	15.6055	•56029	.08305	•001	• 08294	• 51
61049	26.850	255.234	15.6645	•46356	.08338	.001	•08335	• 59
61048	26.851	254.549	15.7257	.37613	.08345	• 002	•08351	•34
61047	26.849	254.205	15.7556	.29770	.08391	.002	.08401	•72
61046	30.401	255.776	16.4802	.56014	.08833	.001	.08823	.32
61045	30.399	255.193	16.5276	.46342	•08852	.301	.08850	• 27
61044	30.400	254.584	16.5776	• 37603	•08907	.001	•08912	•60
61043	30.397	254.087	16.6177	.29777	.08915	.002	.08927	•46
61042	33.905	255.663	17.2043	.56015	.09323	.001	.09314	.21
61041	33.907	255.054	17.2509	•46350	.09361	.001	.09360	•34
61040	33.909	254.579	17.2875	•37602	•09388	• 001	• 0 93 94	• 41
61039	33.909	254.064	17.3268	.29769	.09394	•002	• 09406	• 24
61038	37.376	255.663	17.8138	.55991	.09780	.001	.09771	.19
61037			17.8543				.09810	• 26
	37.374	255.091		.46338	.09811	.001		
61036	37.373	254.512	17.8955	•37606	.09820	•002	.09827	•10
61035	37.374	254.068	17.9274	•29770	.09838	•002	•09851	.08
61034	40.731	256.199	18.2959	.664R1	.10193	.001	.10177	• 35
61033	40.729	255.692	18.3298	.55936	.10218	.001	.10209	. 39
61032	40.727	255.244	18.3598	.46315	.10249	.001	.10246	.50
61030	44.631	256.203	18.8319	.66637	•10593	.001	.10577	21
61029	44.631	255.607	18.8697	• 56050	•10628	•001	•10620	12
61028	44.631	254.993	18.9087	.46397	.10634	.001	.10634	32
61027	44.632	254.544	18.9373	.37645	.10682	.002	.10688	05
61026	48.090	256.097	19.2644	.66640	.10970	.001	•10956	32
61025	48.089	255.479	19.3017	.56065	•11007	.001	•11001	23
61024	48.089	254.909	19.3363	•46402	.11033	•002	.11034	21
61023	48.087	254.428	19.3653	.37632	.11059	.002	•11066	17
61022	51.674	255.939	19.6753	.66635	.11361	•001	.11349	28
						.001	.11374	34
61021	51.673	255.358	19.7088	•56051	•11379			
61020	51.672	254.925	19.7338	•46380	•11397	.001	•11398	35
61019	51.673	254.412	19.7636	• 37609	.11422	•002	.11429	33
51018	56.210	256.371	20.1124	.78108	.11793	.001	•11776	~.33
61017	56.209	255.786	20.1444	.66598	.11819	.001	.11809	33
61016			20.1742			.001	.11840	32
	56.207	255.239		•56023	.11843			
61015	56.208	254.711	20.2032	• 46369	.11839	•002	•11843	55
61014	56.203	254.267	20.2272	• 37609	•11912	•002	•11921	10
61012	59.687	255.471	20.4844	.66526	.12184	.001	.12178	19
61013	59.690	255.429	20.4868	.66531	.12189	.001	.12184	16
61010	59.684	254.396			.12209	.002	•12216	37
			20.5409	.46317				
61009	59.683	254.078	20.5578	•37569	.12246	•002	•12257	18
61008	63.260	255.957	20.7686	.78036	•12586	.002	.12575	• 55
61007	63.260	255.379	20.7981	.66515	.12659	•003	.12655	• 92
61006	53.255	254.993	20.8173	.55951	.12468	•003	.12468	73
61005		254.436			.12537	.002	•12543	38
	63.252		20.8456	.46299				
61004	66.477	255.922	21.0323	.77958	.12880	• 001	.12870	• 56
61003	66.480	255.361	21.0603	.66483	•12865	.001	•12861	• 25
61002	66.474	254.827	21.0863	.55938	.12888	.002	•12890	• 25
61001	56.473	254.429	21.1059	.46281	.12852	.001	.12858	17
	50000							

					Experimental		Adjusted Thermal	
Run Pt.	Pressure	Temperature	Density	Power	Thermal Conductivity	STAT	at a nominal Temperature of 275 K	deviation from correlation
	MPa	К	mol/L	W/m	W/m.K		W/m.K	percent
63100	1.015	275.820	.4533	.15447	.03152	.003	•03141	. 62
63099	1.015	275.218	.4543	.12805	.03144	.004	.03141	• 61
63098	1.015	274.623	.4557	.10417	.03134	•004	.03139	• 54 • 76
63097 63096	1.016 2.495	274.083 276.019	.4569 1.1547	.08270	.03134 .03288	.006 .002	.03146 .03275	•08
63095	2.495	275.382	1.1581	.15400	.03289	.003	.03284	.34
53094	2.496	274.765	1.1617	.12766	.03277	.004	.03280	• 20
63093	2.497	274.285	1.1647	.10385	.03274	•005	.03283	• 28
63092	4.446	275.546 275.066	2.1646	.18263	.03509 .03495	•002 •003	•03502 •03494	• 18 •• 08
63091 63090	4.447 4.448	274.433	2.1703 2.1779	.15388 .12765	.03499	•003	.03506	• 22
63089	4.449	274.021	2.1830	.10386	03489	.005	.03501	•05
63088	6.508	275.252	3.3374	.18298	.03804	.003	.03801	.72
63087	6.508	274.818	3.3462	.15423	.03809	.003	•03811	• 93
63086 63085	6.507 6.507	274.354 274.121	3.3553 3.3599	.12793 .10417	.03807 .03816	•004 •005	.03815 .03827	.97 1.25
63084	8.401	277.314	4.4373	.32364	.04135	.001	.04108	1.12
63083	8.402	276.746	4.4551	.28484	.04134	.002	.04113	1.13
53082	8.405	276.190	4.4739	.24858	.04126	.001	.04112	• 97
63081	8.407	275.541	4.4950	.21474	•04120	•002	.04114	. 87
63080 63079	10.552 10.553	276.595 276.054	5.8401 5.8653	.32376 .28500	.04551 .04548	.001	.04534 .04537	1.17 1.06
63078	10.555	275.617	5.8864	.24862	.04543	.002	•04536	•90
63077	10.559	275.127	5.9119	.21474	.04547	.002	.04546	• 93
63076	12.673	276.632	7.2307	.36443	•05004	.001	•04988	• 74
63075	12.674	276.126	7.2618	•32326	•05012	.001	.05001	• 77 • 57
63074 63073	12.675 12.678	275.640 275.203	7.2925 7.3212	.28456 .24835	.05CC8	•002 •002	.05002 .05005	•43
63072	14.652	276.728	8.4852	.40823	.05439	.001	.05423	•31
63071	14.553	276.201	8.5237	.36445	.05443	.001	•05432	• 22
63070	14.655	275.829	8.5513	.32336	.05449	.002	.05441	• 20
63069 63068	14.656 16.954	275.408 276.345	8.5826 9.8597	.28458 .40830	.05452 .05929	.002	.05448 .05917	•12 •07
63067	16.954	275.929	9.8929	.36458	.05945	.001	.05937	• 20
63066	16.956	275.539	9.9250	.32329	.05941	.001	.05936	00
63065	16.957	275.111	9.9603	.28452	.05939	.002	.05938	19
63064	19.153	276.052	11.0121	.40854	.06356	•001	•06346	•03
63063 63062	19.154 19.155	275.714 275.280	11.0404	.36476	.06373 .06382	.001 .002	.06366 .06379	•18 •16
63061	19.155	275.004	11.0999	.28482	.06383	.002	.06383	.08
63060	21.322	276.700	11.9243	.50337	.06746	.001	.06728	.34
63059	21.323	275.909	11.9898	.40841	.06757	.001	.06747	• 23
63058 63057	21.324 21.325	275.069 274.513	12.0602	.32360 .24851	.06782 .06784	•002 •003	•06781	•30 •13
63056	23.529	276.428	12.8008	.50352	.07133	.001	•06789 •07116	• 57
63055	23.529	275.693	12.8606	.40849	.07146	.001	.07138	• 50
63054	23.531	274.982	12.9192	.32356	.07168	.002	.07168	• 56
63053	23.535	274.401	12.9684	•24843	.07155	.003	.07162	•16
63052 63051	26.983 26.984	276.181 275.483	13.9511	.50294 .40809	.07678 .07696	.001 .001	.07663 .07690	•67 •66
63050	26.986	274.770	14.0625	.32330	.07718	.002	.07721	• 70
63049	26.988	274.248		.24830	.07728	.003	.07738	•64
63048	30.486	276.033	14.9146	.50312	.08188	.001	.08174	• 71
63047 53046	30.487 30.488	275.358 274.715	14.9651 15.0134	.40824 .32341	.08186 .08231	•003 •002	.08181 .08235	• 46
63045	30.490	274.239	15.0495	.24832	.08232	.003	.08242	.78 .63
63044	33.987	275.647	15.6786	.60746	.08653	.001	.08630	. 83
63043	33.989	275.018	15.7232	•50276	.08678	.002	•08664	• 90
63042 63041	33.987	275.248	15.7773	.40817	.08684	•002	.08680	•72
53040	33.991 37.531	274.869 2 76. 150	15.8051 16.4198	.32315 .60705	.08710 .09067	.002	.08712 .09050	.88 .25
63039	37.530	275.502	16.4630	.50242	.08976	.002	.08969	98
63038	37.529	274.848	16.5068	.40772	.09182	.001	.09184	1.07
63037	37.528	274.390	16.5375	•32291	.08826	.002	.08835	-3.08
63036 63035	41.154 41.153	276.052 275.385	17.0581	.60709 .50251	•09492 •09586	.001	.09477 .09580	•10 •87
63034	41.151	274.737		.40785	.09528	.001	.09532	.05
63033	41.151	274.280	17.1709	.32303	.09576	.001	.09586	.40
63032	44.660	275.921	17.6090	.60719	• 09929	.001	.09916	•43
63031 63030	44.650 44.660	275.284 274.679		•50258	.10015	.001	•10011	1.08
63029	44.660	274.079	17.6845 17.7156	.40788 .32297	.09936 .09927	.002 .001	.09941 .09939	•10 -•16
63028	48.079	275.776	18.0940		.10277	.001	.10266	.13
63027	48.080	275.237	18.1255	.50235	.10290	.001	.10287	.09
63026	48.078	274.656	18.1590		-10284	.001	.10289	15
63025 63024	48.078 51.734	274.170 276.282	18.1874 18.5276	•32293 •72174	.10364 .10645	.001	•10376 •10627	.46
63023	51.733	275.668	18.5617	.60700	•10652	•001	.10643	.05
63022	51.733	275.120	18.5922	.50235	.10682	.001	•10680	•16

63021	51.732	274.592	18.5215	.40764	.10677	.001	•106B3	05
63020	55.237	276.367	18.9287	.72086	•10987	.001	.10969	.14
	55.235							
63019		275.610	18.9690	•60660	.11000	.001	•10992	• 03
63018	55.235	275.048	18.9990	.50223	.11026	.001	.11025	.10
63017	55.233	274.537	19.0262	.40756	•11059	.001	•11065	• 24
63016	58.748	276.173	19.3137	.72115	.11329	.001	.11314	
								•14
63015	58.747	275.531	19.3467	.60682	•11347	.001	•11340	•11
63014	58.748	274.999	19.3742	.50221	• 11361	.001	•11361	•07
63013	58.749	274.471	19.4015	.40762	.11393	.001	.11400	
								• 19
63012	62.502	276.101	19.6879	.72083	•11694	.001	.11680	• 30
63011	62.503	275.477	19.7190	.60654	.11710	.001	•11704	• 25
63010	62.499	274.905	19.7470	.50205	•11722	.002	•11723	.18
63009	62.497	274.457	19.7691	.40740	.11744	•002	.11751	. 24
63008	65.832	275.948	20.0016	.72167	.12004	• 201	•11993	`.3 8
63007	65.838	275.385	20.0291	•60707	.12010	.001	•12005	. 26
63006								
_	65.840	274.943	20.0507	.50242	.12014	• 002	.12015	•16
63005	65.839	274.423	20.0756	.40757	.12016	• 002	•12023	• 02
63004	69.251	276.499	20.2712	.84619	•12280	.001	•12263	•40
63003	69.252	275.940	20.2974	.72168	.12306	.001	.12295	
								• 45
63002	69.254	275.379	20.3237	.60710	.12327	.001	•12323	• 4 5
63001	69.256	274.798	20.3509	.50235	•12333	.002	•12335	• 33
						–		
					Cusantainhat		Addusted Thomas	Conductivities
					Experimental		Adjusted Thermal	
					Thermal		at a nominal	deviation
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 295 K	from correlation
		K				3161		
	MPa	K	mol/L	W/m	W/m·K		W/m.K	percent
64096	• 988	296.783	.4076	.19678	.03402	.001	•03376	49
		296.042						
64095	.988		.4087	•16582	.03389	•002	.03374	56
64094	.988	295.352	•4098	.13751	.03383	•002	.03378	44
64093	.989	294.797	•4110	.11185	.03357	.003	.03360	98
64092	1.949	296.430	.8198	.19679	.03477	.002	.03456	63
64091	1.949	295.783	.8218	•16583	.03465	.002	•03454	72
64090	1.950	295.177	.8242	.13753	.03465	•002	•03462	47
64089	1.950	294.638	.8260	.11181		.004	.03456	66
64088	3.911	296.023	1.7091	.19687	.03648	•002	.03633	91
6 40 87	3.912	295.413	1.7140	•16594	.03651	.002	•03645	61
64086	3.913	294.915	1.7180	.13757	.03640	.003	.03641	74
64085	3.914	294.458	1.7220		.03638	•003		63
				•11184			.03646	
64083	5.976	296.320	2.7045	.23054	.03R82	•002	.03863	61
64082	5.978	295.741	2.7133	.19686	.03879	• 002	•03869	53
64081	5.981	295.153	2.7226	.16583	.03866	.003	.03864	70
64084	5.974	294.671	2.7256	•13760	•03862	.003	.03867	65
64080	8.077	295.849	3.7900	.30408	.04152	.001	• 04140	15
64079	8.079	295.213	3.8044	.26540	.04159	.001	.04156	•14
64078	8.082	294.626	3.8184	.22936	.04152	•001	.04157	• 08
5 4077	8.087	294.135	3.8317	.19587	.04146	• 002	•04158	• 02
64076	10.365	295.366	5.0327	.30417	.04499	.001	.04494	• 35
64075	10.367	294.726	5.0539	.26549	.04503	.001	.04507	.49
64074	10.369	294.274	5.0689	.22937	• 04 496	.001	.04506	. 37
64073	10.373	293.791	5.0863	.19590	.04498	.001	•04514	• 45
64072	12.169	294.991	6.0388	.30407	.04808	.001	.04808	. 60
64071	12.171	294.453	5.0612	.26539	• 04798	.001	.04805	•39
64070	12.173	293.987	6.0808	.22933	•04822	•002	•04835	•88
64069	12.176	293.540	6.1007	.19590	.04813	.002	.04832	• 68
64068	14.295	296.186	7.1437	.43623		.001	.05155	.27
64067	14.297	295.091	7.1977	.34554	.05178	.001	.05177	• 33
64066	14.297	294.119	7.2458	.26546	•05174	.001	.05185	.17
64065	14.299	293.367	7.2843	.19579		.002	.05179	20
	16.379							21
64064		295.764	8.2537	.43582		.001	.05520	
64063	16.379	294.721	8.3126	.34532		.001	.05538	26
64062	16.381	293.904	8.3600	.26521	.05534	.002	.05547	41
64061	16.382	293.091	8.4079	.19581		.002	.05554	59
	18.657						.05912	57
64060		295.420	9.3830	.43576	.05917	.001		
64059	18.658	294.415	9.4460	.34537		.001	.05943	44
64058	18.659	293.588	9.4990	.26536	.05936	.002	•05953	61
64057	18.662	292.903	9.5440	.19582		.003	.05977	48
6 40 56	21.429	295.068	10.6132	.43616	.06390	.001	.06389	36
64055	21.432	294.252	10.6684	.34547	.06409	.003	•06418	24
64054	21.432	293.482	10.7200	.26544	•06409	.002	.06428	40
64053	21.434	292.793	10.7671	.19593	.06431	•004	.06458	21
64052	25.128	295.659	11.9458	.53780	.06921	•002	.06912	62
64051	25.127	294.864	11.9987	.43644	.06971	.001	.06973	07
64050	25.128	294.012	12.0565	.34590	•06969	.002	•06982	29
64049	25.126	293.449	12.0942	.26552	.06976	.003	•06997	31
64048	28.719	295.579	13.0659	.53714	.07460	.001	.07452	07
64047	28.716	294.771	13.1185	.43594	.07485	.001	.07488	• 09
64046	28.712	294.080	13.1632	.34540	•07495	•002	.07508	•08
64045	28.713	293.601	13.1955	.26524	.07484	.003	•07504	18
54044	32.484	296.573	13.9937	.65080	.07914	.001	.07890	28
			14.0486			.001	.07916	31
64043	32.483	295.711		.53881	•07927			
64042	32.484	295.042	14.0918	.43712	• 07 926	.001	.07925	47
64041	32 . 485	294.303	14.1396	.34634	.07989	.002	• 08 000	• 15
64040	36.134	296.404	14.8338	.65093	.08342	.001	.08320	52
		F / O 8 T V T	T-16-1730	003073				
64000		205 521	14 0004	E2007	00344	001		
64039	36.135	295.521	14.8886	.53897	.08366	.001	.08358	43

	24 124	204 042	1/ 0200	42725	.08384	.001	.08386	37
64038	36.136	294.862	14.9298	.43735				34
64937	36.136	294.272	14.9667	.34643	.08398	.002	.08409	
64036	39.442	296.324	15.5008	.65087	.08733	.001	.08712	44
64035	39.442	295.531	15.5482	.53889	.08743	.001	.08735	51
64034	39.444	294.765	15.5946	.43749	.08756	.002	.08760	54
54033	39.444	294.155	15.6314	.34659	.08786	.002	.08799	34
64032	42.826	296.155	15.1165	.65110	.09103	.001	.09085	53
		295.472	16.1560	.53893	.09127	.001	.09119	43
64031	42.826						.09129	62
64030	42.827	294.753	16.1979	.43748	.09125	.001		
64029	42.827	294.259	16.2266	.34638	.09136	.001	.09148	62
64028	46.333	296.097	16.5848	.65081	.09470	.001	• 0 9 4 5 3	59
54027	46.333	295.347	16.7267	.53894	.09492	.001	.09487	54
64026	46.333	294.739	16.7505	.43735	.09497	.001	.09501	63
64025	46.334	294.112	15.7959	.34655	.09524	.001	.09538	49
64024	49.998	296.085	17.2192	.55100	.09847	.001	.09830	54
		295.349	17.2589		.09867	.001	.09862	51
64023	50.000			.53908				50
64022	50.000	294.672	17.2954	•43753	.09883	.001	.09888	
64021	50.001	294.162	17.3230	.34655	.09914	.001	.09927	31
64020	53.680	295.878	17.7173	.65037	.10213	.001	.10200	50
64019	53.681	295.267	17.7491	.53834	•10220	.001	.10216	57
64018	53.682	294.552	17.7863	.43704	.10237	.001	.10244	58
64017	53.685	294.003	17.8151	.34631	.10249	.002	.10264	59
64016	57.061	295.330	18.1555	.65059	.10541	.001	.10536	50
			18.1867		.10558	.001	.10562	49
64015	57.060	294.706		•53859				
64014	57.061	294.110	18.2167	.43712	.10584	.001	.10597	38
64013	57.062	293.609	18.2420	.34613	.10574	.001	.10594	60
64012	60.576	295.232	18.5549	.64984	.10865	.001	.10862	45
64011	60.576	294.648	18.5831	•53789	.10885	.001	.10890	40
64010	60.578	294.036	18.6130	.43664	.10897	.001	.10910	44
64009	60.577	293.630	18.6327	.34590	.10909	.002	.10928	42
64008	63.953	295.187	18.9095	.65023	.11177	.001	.11174	28
		294.555	18.9397			.001	.11210	19
64007	63.958			.53831	.11204			
64006	63.952	294.012	18.9646	.43686	.11193	.002	.11206	41
64005	63.951	293.475	18.9898	.34595	.11241	.002	.11261	11
64004	67.319	295.776	19.2118	.77273	•11471	.001	•11461	04
64003	67.321	295.118	19.2419	.65036	•11491	.001	•11489	02
64002	67.320	294.631	19.2640	.53844	.11510	.002	.11515	• 03
64001	67.323	294.106	19.2881	.43691	.11521	.002	.11532	.00
0,002	010020	2710200	1,41000		,,,,,,,		******	
					Experimental		Adjusted Thermal	Conductivity
					Thermal		at a nominal	deviation
D DA	0	Tananakuna	Dana I hu	0		CTAT		
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 310 K	from correlation
Run Pt.	Pressure MPa	Temperature K	Density mol/L	Power W/m		STAT		
	MPa	К	mol/L	W/m	Conductivity W/m.K		Temperature of 310 K W/m.K	from correlation percent
Run Pt. 60100					Conductivity	.003	Temperature of 310 K	from correlation
	MPa	К	mol/L	W/m	Conductivity W/m.K		Temperature of 310 K W/m.K	from correlation percent
60100	MPa 1.076 1.076	K 309.085 308.341	mol/L .4258 .4270	.17384 .14426	Conductivity W/m.K .03591 .03610	.003	Temperature of 310 K W/m.K .03606 .03636	from correlation percent 57 .28
60100 60099 60098	MPa 1.076 1.076 1.077	309.085 308.341 307.755	.4258 .4270 .4282	.17384 .14426 .11737	Conductivity W/m.K .03591 .03610 .03581	.003 .003	Temperature of 310 K W/m.K .03606 .03636 .03617	from correlation percent 57 .28 27
60100 60099 60098 60097	MPa 1.076 1.076 1.077 1.077	309.085 308.341 307.755 307.128	mol/L .4258 .4270 .4282 .4291	.17384 .14426 .11737 .09326	Conductivity W/m.K .03591 .03610 .03581 .03558	.003 .003 .005	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604	from correlation percent 57 .28 27 64
60100 60099 60098 60097 60096	MPa 1.076 1.076 1.077 1.077 2.675	X 309.085 308.341 307.755 307.128 309.214	mol/L .4258 .4270 .4282 .4291 1.0856	17384 .14426 .11737 .09326 .20634	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742	.003 .003 .005 .006	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754	from correlation percent 57 .28 27 64 18
60100 60099 60098 60097 60096 60095	MPa 1.076 1.076 1.077 1.077 2.675 2.675	X 309.085 308.341 307.755 307.128 309.214 308.624	mol/L .4258 .4270 .4282 .4291 1.0856 1.0881	17384 .14426 .11737 .09326 .20634 .17389	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733	.003 .003 .005 .005 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755	from correlation percent 572827641818
60100 60099 60098 60097 60096 60095	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.676	X 309.085 308.341 307.755 307.128 309.214 308.624 308.033	.4258 .4270 .4282 .4291 1.0856 1.0881	W/m .17384 .14426 .11737 .09326 .20634 .17389	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701	.003 .003 .005 .005 .002 .002	Temperature of 310 K W/m.K	from correlation per cant 57282764181881
60100 60099 60098 60097 60096 60095 60094	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.676 2.678	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414	.4258 .4270 .4282 .4291 1.0856 1.0881 1.0908	%/m .17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701	.003 .003 .005 .005 .002 .002	Temperature of 310 K W/m.K	from correlation per cant 5728276418188178
60100 60099 60098 60097 60096 60095 60094 60093 50092	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743	X 309.085 308.341 307.755 307.128 309.214 308.024 308.033 307.414 309.391	.4258 .4270 .4282 .4291 1.0856 1.0881 1.0908 1.0939	.17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936	.003 .003 .005 .006 .002 .002 .004 .005	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945	from correlation percent 57 .282764181818187812
60100 60099 60098 60097 60096 60095 60094 60093 60092 60091	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743	X 309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.869	.4258 .4270 .4282 .4291 1.0856 1.0881 1.0908 1.0939 1.9844 1.9889	.17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735 .24167	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936	.003 .003 .005 .006 .002 .002 .004 .005	Temperature of 310 K W/m.K	from correlation percent 57282764181881781259
60100 60099 60098 60097 60096 60095 60094 60093 50092	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743	X 309.085 308.341 307.755 307.128 309.214 308.024 308.033 307.414 309.391	.4258 .4270 .4282 .4291 1.0856 1.0881 1.0908 1.0939	.17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936	.003 .003 .005 .006 .002 .002 .004 .005	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945	from correlation percent 57 .282764181818187812
60100 60099 60098 60097 60096 60095 60094 60093 60092 60091	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743	X 309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.869	.4258 .4270 .4282 .4291 1.0856 1.0881 1.0908 1.0939 1.9844 1.9889	17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735 .24167 .20631	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936	.003 .003 .005 .006 .002 .002 .004 .005	Temperature of 310 K W/m.K	from correlation per cant 5728276418188178125925
60100 60099 60098 60097 60096 60095 60093 60092 60091 60090 60089	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.743	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.849 308.250	mol/L .4258 .4270 .4282 .4291 1.0856 1.0886 1.0908 1.0939 1.9844 1.9889 1.9996	%/m .17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735 .24167 .20631 .17401	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910	.003 .005 .005 .002 .002 .004 .005 .002 .002	Temperature of 310 K W/m.K	from correlation per cant 572827641818817812592540
60100 60099 60098 60097 60096 60095 60093 60091 60090 60089 60088	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.743 4.744 6.732	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.849 308.250 307.648	mol/L .4258 .4270 .4282 .4291 1.0856 1.0886 1.0939 1.9844 1.9889 1.9942 2.8926	#/m .17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735 .24167 .20631 .17401 .14425	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910 .03915 .03901	.003 .003 .005 .006 .002 .004 .005 .002 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03942 .03947 .04154	from correlation percent 5728276418181881781259254006
60100 60099 60098 60097 60096 60093 60093 60091 60090 60089 60088 60087	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.675 2.676 4.743 4.743 4.743 4.743 4.743 6.732 6.732	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.849 308.250 307.648 309.635	#01/L .4258 .4270 .4282 .4291 1.0856 1.0881 1.0908 1.9944 1.9889 1.9942 2.8926 2.9007	17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735 .24167 .20631 .17401 .14425 .27951	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910 .03915 .03901 .04148 .04153	.003 .005 .005 .002 .002 .004 .002 .002 .002	Temperature of 310 K W/m.K	from correlation percent
60100 60099 60098 60097 60096 60094 60093 60092 60091 60090 60088 60088 60088	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.732 6.733	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.33 307.414 309.648 308.250 307.648 309.648	mol/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.0939 1.9884 1.9942 1.9996 2.8926 2.9006	%/m .17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735 .24167 .20631 .17401 .14425 .27951 .24155	Conductivity W/m.K .03591 .03610 .03581 .035782 .03742 .03733 .03701 .03693 .03936 .03910 .03915 .03901 .04148 .04153 .04146	.003 .005 .005 .002 .002 .004 .005 .002 .002 .002 .003	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170	from correlation percent 572827641818817812592540063535
60100 60099 60098 60097 60096 60093 60092 60091 60088 60087 60088 60087 60085	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.732 6.733 6.733	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.849 308.250 307.648 309.635 309.635	mol/L .4258 .4270 .4282 .4291 1.0886 1.0908 1.0939 1.9844 1.9849 1.9996 2.8926 2.9008 2.9086 2.9159	%/m .17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735 .24167 .20631 .17401 .14425 .27951 .24155 .20630 .17389	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910 .03915 .03901 .04148 .04153 .04146	.003 .005 .005 .006 .002 .002 .002 .002 .002 .003	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159	from correlation per cant 5728276418188178125925400635353505
60100 60099 60098 60097 60096 60093 60093 60091 60090 60089 60087 60086 60087 60086	MPa 1.076 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.743 4.744 6.732 6.732 6.733 6.733 8.876	309.085 308.341 307.755 307.128 309.214 308.624 308.624 308.633 307.414 309.391 308.849 308.250 307.648 309.635 309.040 308.464 307.941	mol/L .4258 .4270 .4282 .4291 1.0856 1.0908 1.0939 1.9844 1.9889 1.9996 2.8926 2.9007 2.9086 2.9159 3.9213	17384 .14426 .11737 .09326 .20634 .1735 .24167 .20631 .17401 .17401 .27951 .24155 .20630 .17389 .27950	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910 .03915 .03901 .04148 .04153 .04146 .04127	.003 .005 .005 .002 .002 .002 .002 .002 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03755 .03756 .03732 .03734 .03945 .03942 .03942 .03947 .04154 .04168 .04170 .04159 .04437	from correlation percent 57282764181818185925400635353590
60100 60099 60098 60097 60096 60093 60091 60090 60089 60088 60087 60086 60087 60086	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.678 4.743 4.743 4.743 4.743 4.743 6.732 6.732 6.733 6.733 6.733 8.876	309.085 308.341 307.755 307.128 309.214 308.624 308.624 308.629 307.414 309.391 308.849 308.259 307.648 309.635 309.040 308.464 307.941 309.267 308.712	mol/L .4258 .4270 .4282 .4291 1.0856 1.0891 1.0939 1.9844 1.9889 1.9946 2.8926 2.9007 2.9086 2.9159 3.9324	17384 14426 11737 09326 20634 17389 14421 11735 24167 20631 17401 14425 27951 24155 20630 17389 27950	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910 .03915 .03901 .04148 .04153 .04146 .04127 .04426 .04395	.003 .005 .005 .002 .002 .002 .002 .002 .003 .002 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03755 .03732 .03734 .03945 .03945 .03942 .03942 .03947 .04154 .04168 .04170 .04159 .04437	from correlation percent 572827641818181812592540063535359033
60100 60099 60098 60097 60096 60094 60093 60091 60090 60088 60088 60087 60086 60085 60084	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.875 8.875	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.33 307.414 309.648 309.649 309.649 309.649 309.649 309.649	mol/L .4258 .4270 .4282 .4291 1.0851 1.0908 1.0908 1.9949 1.9942 1.9996 2.8926 2.9007 2.9086 2.9159 3.9213 3.9324 3.9436	17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735 .24167 .20631 .17401 .14425 .27951 .24155 .20630 .17389 .27950 .24146 .20633	Conductivity W/m.K .03591 .03610 .03581 .035782 .03742 .03733 .03701 .03693 .03936 .03910 .03915 .03901 .04148 .04153 .04146 .04127 .04426 .04395 .04902	.003 .005 .006 .002 .002 .002 .002 .002 .003 .002 .003	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04455 .04430	from correlation percent 57282764181881781259254006353505903361
60100 60099 60098 60097 60095 60094 60093 60092 60091 60088 60088 60087 60086 60085 60084 60083	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.875 8.877	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.33 307.416 309.635 309.635 309.635 309.635 309.635 309.635	mol/L .4258 .4270 .4282 .4291 1.0886 1.0908 1.0939 1.9849 1.9942 1.9996 2.8926 2.9007 2.9086 2.9159 3.9213 3.9324 3.9436 3.9533	17384 14426 11737 09326 20634 17389 14421 11735 24167 20631 17401 14425 27951 24155 20630 17389 27950 24146 20630 17389 27950 24146 20630 17389	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910 .04148 .04148 .04127 .04426 .04395 .04402	.003 .005 .005 .002 .002 .002 .002 .002 .003 .002 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03755 .03732 .03734 .03945 .03945 .03942 .03942 .03947 .04154 .04168 .04170 .04159 .04437	from correlation percent 572827641818181812592540063535359033
60100 60099 60098 60097 60096 60094 60093 60091 60090 60088 60088 60087 60086 60085 60084	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.875 8.875	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.33 307.414 309.648 309.649 309.649 309.649 309.649 309.649	mol/L .4258 .4270 .4282 .4291 1.0851 1.0908 1.0908 1.9949 1.9942 1.9996 2.8926 2.9007 2.9086 2.9159 3.9213 3.9324 3.9436	17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735 .24167 .20631 .17401 .14425 .27951 .24155 .20630 .17389 .27950 .24146 .20633	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910 .04148 .04148 .04127 .04426 .04395 .04402	.003 .005 .006 .002 .002 .002 .002 .002 .003 .002 .003	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04455 .04430	from correlation percent 57282764181881781259254006353505903361
60100 60099 60098 60097 60096 60093 60092 60091 60089 60088 60087 60088 60085 60084 60083 60082 60082	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.678 4.743 4.743 4.744 6.732 6.732 6.733 8.876 8.877 8.877 11.038	309.085 308.341 307.755 307.128 309.214 308.624 308.633 307.414 309.391 308.849 308.250 307.648 309.635 309.040 308.464 307.941 309.267 308.712 308.712 308.710 308.710	mol/L .4258 .4270 .4282 .4291 1.0856 1.0898 1.0908 1.99844 1.9889 2.8926 2.9086 2.9086 2.9159 3.9213 3.9324 3.9436 3.9533 4.9610	17384 17384 11426 11737 09326 20634 17389 14421 11735 24167 20631 17401 14425 27951 24155 20633 17389 27950 24146 20633 17389 36387	Conductivity W/m.K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910 .03915 .03901 .04148 .04153 .04146 .04127 .04426 .04395 .04402 .04403	.003 .005 .005 .006 .002 .002 .002 .002 .002 .002 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04455 .04430 .04438	from correlation percent 5728276418181818125925400635353590336173 1-01
60100 60099 60098 60097 60096 60093 60091 60090 60089 60087 60086 60087 60082 60082 60082 60081 60082 60081 60082 60081	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.676 2.678 4.743 4.743 4.743 4.743 6.732 6.732 6.733 6.733 8.876 8.877 8.877 11.038 1.039	309.085 308.341 307.755 307.128 309.214 308.624 308.624 308.624 308.624 307.414 309.391 308.849 309.635 309.648 309.635 309.040 308.464 307.941 309.267 308.712 308.770 307.7710	mol/L .4258 .4270 .4282 .4291 1.0856 1.0908 1.0939 1.9844 1.9889 1.9996 2.8926 2.9007 2.9086 2.9159 3.9324 3.9324 3.9436 3.9533 4.9610 4.9916	17384 14426 11737 09326 20634 1735 24167 20631 174425 27951 24155 20630 17389 27950 24146 20633 17389 27950 24146 20633 17389 27950 24146 20633	Conductivity W/m·K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03910 .03915 .03910 .04148 .04153 .04146 .04127 .04426 .04127 .04426 .04395 .04402 .04403	.003 .005 .005 .002 .002 .002 .002 .002 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04415 .04430 .04438 .04719 .04731	from correlation percent
60100 60099 60098 60097 60096 60094 60093 60091 60090 60088 60088 60087 60084 60085 60082 60081 60080 60080 60080 60080 60080 60080	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 6.733 8.876 8.877 8.877 11.038 11.039	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.33 307.414 309.645 309.646 309.646 309.646 309.647 309.267 308.712 308.712 308.712 308.712 308.712	mol/L .4258 .4270 .4282 .4291 1.0881 1.0908 1.0939 1.9944 1.9889 1.9942 1.9996 2.8926 2.9007 2.9086 2.9159 3.9213 3.9324 3.9533 4.9610 5.0197	17384 .14426 .11737 .09326 .20634 .17389 .14421 .11735 .24167 .20631 .17401 .24155 .20630 .17389 .27950 .24146 .20633 .17389 .27955 .20636	Conductivity W/m.K .03591 .03610 .03581 .03588 .03742 .03733 .03701 .03693 .03910 .03915 .03910 .04148 .04153 .04146 .04127 .04426 .04395 .04402 .04403 .04715 .04683	.003 .005 .006 .002 .002 .002 .002 .003 .002 .003 .002 .003 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03947 .04154 .04168 .04170 .04168 .04170 .04159 .04437 .0445 .04430 .04438 .04719 .04731	from correlation percent 57282764181881781259254006353505903361731011058
60100 60099 60098 60097 60095 60094 60093 60091 60089 60088 60088 60085 60085 60084 60085 60086 60086 60087 60080	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.877 11.038 11.039 11.039	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.33 307.416 309.635 309.635 309.635 309.635 309.635 309.267 308.712 308.712 308.712 308.712 308.710	mol/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.0939 1.9889 1.9942 1.9996 2.8926 2.9006 2.9159 3.9213 3.9324 3.9436 3.9533 4.9610 4.9917 5.0435	#/m 17384 14426 11737 09326 20634 17389 14421 11735 24167 20631 17401 14425 27951 24155 24146 20633 17389 27950 24146 17389	Conductivity W/m·K .03591 .03610 .03581 .03558 .03758 .03701 .03693 .03910 .03915 .03901 .04148 .04153 .04146 .04127 .04426 .04395 .04903 .04715 .04683 .04695	.003 .005 .005 .006 .002 .002 .002 .002 .003 .002 .002 .003 .002	Temperature of 310 K W/m·K .03606 .03636 .03617 .03604 .03755 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04455 .04438 .04719 .04438 .04719 .04731	from correlation percent 5728276418188178125925400635350590336173 1-01 1-105895
60100 60099 60098 60097 60096 60093 60092 60091 60089 60088 60087 60083 60085 60081 60080 60079 60077 60077	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.877 11.038 11.039 11.039 13.147	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.849 308.250 307.648 309.635 309.635 309.636 308.712 308.712 308.712 308.712 308.712 308.712 308.713 309.635	mol/L .4258 .4270 .4282 .4291 1.0886 1.0908 1.0939 1.9844 1.9889 2.8926 2.9007 2.9159 3.9213 3.926 3.9433 4.9610 4.9916 5.0197 5.0435 6.0076	17384 17384 14426 11737 09326 20634 17389 14421 11735 24167 20631 17401 14425 27951 24155 20630 17389 27950 24146 20638 17389 27950 24146 20638 27950 24146 20638 36387 27955 20638 36387 36387 363883	Conductivity W/m·K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910 .03915 .03901 .04148 .04153 .04146 .04127 .04426 .04395 .04403 .04719 .04715 .04695 .05009	.003 .005 .006 .002 .002 .002 .002 .002 .002 .003 .002 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03755 .03732 .03734 .03945 .03942 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04155 .04430 .04430 .04430 .04431 .04719 .04731 .04739 .04739	from correlation percent 57282764181818181259254006353535353535353
60100 60099 60098 60097 60096 60093 60091 60091 60089 60087 60088 60087 60082 60082 60081 60080 60079 60078 60077 60077	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.678 4.743 4.743 4.743 4.744 6.732 6.732 6.733 6.733 8.876 8.875 8.877 11.038 11.039 11.039 11.039 11.039 13.147	309.085 308.341 307.755 307.128 309.214 308.624 308.623 307.414 309.391 308.849 308.250 307.648 309.635 309.040 308.464 307.941 309.267 308.712 308.712 308.712 308.712 308.713 308.603	mol/L .4258 .4270 .4282 .4291 1.0856 1.0908 1.0939 1.9844 1.9889 2.8926 2.9007 2.9086 2.9159 3.9324 3.9324 3.9433 3.9433 4.9610 4.9916 5.0197 5.0437 6.0448	17384 117384 11426 11737 09326 20634 11735 24167 20631 114425 27951 24155 20638 17425 20638 17425 20638 17425 20638 17425 20638 17425 20638 17425 20638 17425 20638 17426 20638 17426 20638 17426 20638 17426 20638 17426 20638 17426 20638 17426 20638 17426 20638 17426 20638 27950 20638 214425 214	Conductivity W/m·K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910 .03915 .03901 .04148 .04153 .04146 .04157 .04426 .04127 .04426 .04395 .04402 .04403 .04719 .04715 .04683 .04695 .05009 .04996	.003 .005 .005 .002 .002 .002 .002 .002 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03755 .03732 .03734 .03945 .03945 .03942 .03947 .04154 .04168 .04170 .04159 .04437 .04415 .04438 .04719 .04731 .04715 .04739 .04715	from correlation percent
60100 60099 60098 60097 60096 60094 60093 60090 60089 60088 60087 60084 60085 60084 60085 60087 60087 60087 60087 60087 60087 60087 60077 60077 60077 60077	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 6.733 8.876 8.877 11.038 11.039 11.039 11.039 11.039 13.147 13.148	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.33 307.419 308.849 308.250 307.648 309.640 309.640 309.641 309.267 308.712 308.712 308.712 308.712 308.712 308.712 308.713 309.643 307.644	mol/L .4258 .4270 .4282 .4291 1.0881 1.0908 1.0939 1.9849 1.9942 1.9996 2.8926 2.9907 2.9086 2.9159 3.9213 3.9533 4.9610 5.0197 5.0435 6.00788	17384 .14426 .11737 .09326 .20631 .11735 .24167 .20631 .17401 .14425 .27455 .20630 .17389 .27456 .20633 .17389 .27456 .20633 .17389 .27456 .20633 .17389 .27456 .20636 .20646 .20646	Conductivity W/m.K .03591 .03610 .03581 .03588 .03742 .03733 .03701 .03693 .03910 .03915 .03910 .04148 .04153 .04146 .04127 .04426 .04395 .0402 .04403 .04719 .04715 .04683 .04695 .05009 .04996 .05023	.003 .005 .006 .002 .002 .002 .003 .002 .003 .002 .003 .001 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04455 .04430 .04438 .04715 .04438 .04715 .04731 .04715 .04739 .05016 .05016	from correlation percent
60100 60099 60098 60097 60096 60093 60091 60090 60088 60088 60088 60085 60084 60085 60086 60087 60080 60090	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.877 11.038 11.039 11.039 11.039 13.147 13.147 13.148	309.085 308.341 307.755 307.128 309.214 308.624 308.624 308.624 308.624 308.624 308.624 307.414 309.635 307.648 309.635 309.635 309.635 309.636 308.712 308.712 308.712 308.712 308.712 308.7710 310.021 308.898 307.642 307.642 307.642	mol/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.0939 1.9889 1.9942 1.9996 2.8926 2.9006 2.9159 3.9213 3.9324 3.9533 4.9610 4.9610 5.0197 5.0435 6.0076 6.0076 6.0788 6.1075	#/m 17384 14426 11737 09326 20634 17389 14421 11735 24167 20631 17401 14425 27950 24146 20633 17389 27950 24146 20633 17389 36387 27955 20636 14425	Conductivity W/m·K .03591 .03610 .03581 .035782 .03733 .03701 .03693 .03936 .03910 .03915 .03901 .04148 .04153 .04146 .04127 .04426 .04395 .04906 .04906 .05023 .05033	.003 .005 .005 .002 .002 .002 .002 .003 .002 .003 .002 .003 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04455 .04430 .04438 .04719 .04731 .04731 .04739 .05014 .05016	from correlation percent 57282764181818125925400635350590336173 1-01 1-1058957558 1-17 1-42
60100 60099 60098 60097 60096 60093 60092 60089 60088 60087 60088 60085 60081 60080 60079 60077 60077 60077 60077	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.877 11.038 11.039 11.039 11.039 11.039 13.147 13.148 13.148 15.185	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.849 308.250 307.648 309.635 309.635 309.635 309.646 308.710 308.710 308.710 308.849 308.710 308.710 308.710 308.849 308.840 309.635	mol/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.0939 1.9844 1.98826 2.9007 2.9086 2.9159 3.9213 3.9326 3.9433 4.9610 4.9916 5.0197 5.0495 6.0076 6.0448 6.0779	17384 14426 11737 09326 20634 11735 24167 20631 114425 27951 24155 20630 17389 27950 24146 20630 17389 27950 24146 20633 27950 24146 20633 27955 20638 27955 20642 20642 20642 20642 20642 20642 20648	Conductivity W/m·K .03591 .03610 .03581 .035782 .03733 .03701 .03693 .03936 .03910 .04146 .04127 .04426 .04127 .04426 .04127 .04403 .04719 .04715 .04695 .05009 .04996 .05023 .05033	.003 .005 .005 .006 .002 .002 .002 .002 .002 .003 .002 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03732 .03734 .03945 .03942 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04415 .04438 .04719 .04438 .04719 .04731 .04731 .04739 .05014 .05016 .05057	from correlation percent 5728276418181818125925400635350590336173 1-01 1-1058957558 1-17 1-4263
60100 60099 60098 60097 60095 60093 60091 60090 60089 60087 60088 60085 60085 60082 60081 60080 60079 60078 60077 60074 60073	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.732 6.733 8.876 8.877 11.038 11.039	309.085 308.341 307.755 307.128 309.214 308.624 308.623 307.414 309.391 308.849 308.250 307.648 309.635 309.040 308.464 307.941 309.267 308.712 308.712 308.712 308.712 308.712 308.712 308.713 307.648 307.648 307.941	mol/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.0939 1.9889 1.9942 1.9996 2.8926 2.9006 2.9159 3.9213 3.9324 3.9533 4.9610 4.9610 5.0197 5.0435 6.0076 6.0076 6.0788 6.1075	#/m 17384 14426 11737 09326 20634 17389 14421 11735 24167 20631 17401 14425 27950 24146 20633 17389 27950 24146 20633 17389 36387 27955 20636 14425	Conductivity W/m·K .03591 .03610 .03581 .035782 .03733 .03701 .03693 .03936 .03910 .03915 .03901 .04148 .04153 .04146 .04127 .04426 .04395 .04906 .04906 .05023 .05033	.003 .005 .005 .002 .002 .002 .002 .003 .002 .003 .002 .003 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04455 .04430 .04438 .04719 .04731 .04731 .04739 .05014 .05016	from correlation percent 57282764181818125925400635350590336173 1-01 1-1058957558 1-17 1-42
60100 60099 60098 60097 60096 60093 60092 60089 60088 60087 60088 60085 60081 60080 60079 60077 60077 60077 60077	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.877 11.038 11.039 11.039 11.039 11.039 13.147 13.148 13.148 15.185	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.849 308.250 307.648 309.635 309.635 309.635 309.646 308.710 308.710 308.710 308.849 308.710 308.710 308.710 308.849 308.840 309.635	mol/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.0939 1.9844 1.98826 2.9007 2.9086 2.9159 3.9213 3.9326 3.9433 4.9610 4.9916 5.0197 5.0495 6.0076 6.0448 6.0779	17384 14426 11737 09326 20634 11735 24167 20631 114425 27951 24155 20630 17389 27950 24146 20630 17389 27950 24146 20633 27950 24146 20633 27955 20638 27955 20642 20642 20642 20642 20642 20642 20648	Conductivity W/m·K .03591 .03610 .03581 .03558 .03742 .03733 .03701 .03693 .03936 .03910 .03915 .03910 .04148 .04153 .04146 .04153 .04146 .04157 .04426 .04395 .04402 .04403 .04719 .04715 .04683 .04695 .05009 .05023 .05033 .05323	.003 .005 .005 .006 .002 .002 .002 .002 .002 .003 .002 .002	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03732 .03734 .03945 .03942 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04415 .04438 .04719 .04438 .04719 .04731 .04731 .04739 .05014 .05016 .05057	from correlation percent 5728276418181818125925400635350590336173 1-01 1-1058957558 1-17 1-4263
60100 60099 60098 60097 60095 60093 60091 60090 60089 60087 60088 60085 60085 60082 60081 60080 60079 60078 60077 60074 60073	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 6.733 8.876 8.877 11.039 11.039 11.039 11.039 11.039 11.039 11.039 11.039 11.039 11.039 11.039 11.039 11.039 11.039 11.039 11.039	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.33 307.416 309.648 309.649 309.649 309.649 309.649 309.649 309.649 309.649 309.649 309.649 309.649 309.649 309.649 309.649 309.649 309.649 309.649 309.649	mol/L .4258 .4270 .4282 .4291 1.08881 1.0908 1.0939 1.9889 1.9942 1.9996 2.8926 2.9907 2.9086 2.9159 3.9213 3.9436 3.9533 4.9610 5.0197 5.0435 6.0076 6.0076 6.0078 6.0078 7.00518 7.00518	17384 .14426 .11737 .09326 .20326 .17389 .14421 .11735 .24167 .24167 .24167 .24167 .24167 .24165 .27450	Conductivity W/m.K .03591 .03610 .03581 .035742 .03733 .03701 .03693 .03910 .03915 .03910 .04146 .04153 .04146 .04127 .04426 .04127 .04428 .04403 .04715 .04683 .04695 .05099 .04996 .05023 .05323 .05323	.003 .005 .006 .002 .002 .002 .003 .002 .003 .002 .003 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04455 .04430 .04438 .04719 .04731 .04715 .04731 .04715 .04739 .05016 .05057 .05079 .05329 .05329	from correlation percent
60100 60099 60098 60097 60096 60093 60091 60089 60088 60088 60085 60085 60084 60085 60086 60087 60080 60070	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.877 11.038 11.039 11.039 11.039 11.039 13.147 13.148 15.185 15.186	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.357 307.648 309.635 309.646 309.646 309.646 309.671 308.712	mol/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.9988 1.9996 2.89207 2.9086 2.9159 3.9213 3.9324 3.9533 4.9610 4.9610 4.9610 5.0195 6.0076 6.0076 6.0078 6.0079 7.00518 7.0085 7.0185	#/m 17384 11436 11737 09326 20634 117389 14421 11735 24167 20631 124155 27950 24146 20633 17389 27950 24146 20633 17389 36387 27955 20642 14425	Conductivity W/m·K .03591 .03610 .03581 .035782 .03701 .03633 .03701 .03693 .03910 .03915 .03901 .04148 .04153 .04146 .04127 .04426 .04395 .0402 .04403 .04715 .04402 .04403 .04715 .04683 .04695 .05009 .04996 .05023 .05323 .05323	.003 .005 .006 .002 .002 .002 .002 .003 .002 .003 .002 .003 .001 .001 .001	Temperature of 310 K W/m·K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03947 .04154 .04168 .04170 .04159 .04430 .04437 .04455 .04430 .04731 .04731 .04731 .04731 .04731 .04731 .04739 .05016 .050079 .05329 .05347 .05358 .05371	from correlation percent 5728276418188178125925400635350590336173 1-01 1-1058957558 1-17 1-42636971
60100 60099 60098 60097 60095 60094 60093 60091 60089 60088 60085 60085 60085 60085 60086 60087 60086 60077 60077 60077 60077 60077 60077 60077 60070 60079 60079 60079	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 8.876 8.877 11.038 11.039	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.849 308.859 307.648 309.635 309.040 308.464 307.941 309.267 308.712 308.712 308.712 308.879 307.710 310.021 308.899 307.648 307.648 307.648 309.635 309.635	mol/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.09889 1.99849 1.9986 2.8926 2.9007 2.9086 2.9159 3.9213 3.9324 3.9433 4.9610 4.9916 5.0076 6.0076 6.0078 6.0079 7.00852 7.00852 7.00855	17384 14426 11737 09326 20634 11735 24167 20631 114425 27951 24155 20630 17389 27950 24145 20633 17389 27950 24145 20633 27950 24145 20633 27950 24145 20633 27950 24145 20633 27950 24145 20633 27950 24145 20633 27950 24145 20633 27950 24145 2633 27950 24145 2633 27950 24145 2633 27950 2063 21455 2155 215	Conductivity W/m·K .03591 .03610 .03581 .035782 .03733 .03701 .03693 .03936 .03910 .04153 .04146 .04127 .04426 .04395 .04402 .04403 .04719 .04719 .04719 .04719 .04719 .04695 .05009 .04998 .05033 .05323 .05323 .05323	.003 .005 .005 .002 .002 .002 .002 .003 .002 .003 .001 .001 .001 .001 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03732 .03734 .03945 .03945 .03945 .03947 .04156 .04168 .04170 .04159 .04437 .04415 .04438 .04719 .04739 .04739 .04739 .05016 .05057 .05079 .05329 .05347 .05638	from correlation percent 57282764188178125925400635350590336173 1-01 1-1058957558 1-17 1-426369697133
60100 60099 60098 60097 60096 60093 60092 60091 60089 60088 60087 60088 60085 60081 60080 60079 60076 60077 60076 60077 60077 60077 60070 60060 60070 60060 60070 60070 60070 60060 60070 60060 60070 60060 60070 60060 60070 60060 60070 60060 60070 60060 60070 60060 60070 60060 60070 60060 60060 60070	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.732 6.733 8.876 8.877 11.038 11.039	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.849 308.250 307.648 309.635 309.040 308.712 308.712 308.712 308.712 308.712 308.712 308.712 308.712 308.712 308.710 310.021 308.898 307.648 307.648 307.648 307.710 310.021 308.898 307.648 307.648 307.648 307.648	TOI/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.0939 1.9844 1.98892 2.9906 2.9906 2.99153 3.9213 3.9433 4.9616 5.0135 6.0076 6.0448 6.0786 7.0852 7.1185 7.0839	17384 17384 14426 20634 17389 14421 11735 24167 20631 17425 27951 24155 206389 27950 24146 20638 17389 27950 24146 20638 17389 27955 20642 14428 36387 27955 20642 14428 4448 4	Conductivity W/m·K .03591 .03610 .03581 .03558 .03742 .03733 .03742 .03693 .03936 .03910 .03915 .03910 .04148 .04153 .04146 .04153 .04146 .04157 .04426 .04395 .04402 .04403 .04719 .04715 .04683 .04683 .04695 .05009 .05023 .050323 .05323 .05323 .05323 .05323	.003 .005 .006 .002 .002 .002 .002 .002 .003 .002 .003 .001 .001 .001 .001 .001 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04415 .04430 .04438 .04719 .04731 .04715 .04731 .04715 .04739 .05016 .05057 .05079 .05329 .05347 .05358 .05371 .05638	from correlation percent
60100 60099 60098 60097 60096 60094 60093 60092 60091 60089 60088 60087 60085 60085 60082 60081 60082 60081 60087 60077 60077 60077 60077 60077 60077 60077 60077 60077 60077 60070 60068 60068 60068	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 6.733 8.876 8.877 11.039	X 309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.37 308.250 307.648 309.635 309.040 308.464 307.941 309.267 308.712 308.712 308.712 308.712 308.712 308.712 308.712 308.7031 309.642 306.841 309.353 309.642 306.841 309.353 308.603 307.642 306.841 309.353 308.746 310.102 308.975 308.110	mol/L .4258 .4270 .4282 .4291 1.08881 1.0908 1.0939 1.9889 1.9996 2.8926 2.9906 2.99159 3.9213 3.9234 3.9436 3.9533 4.9610 5.0197 5.0435 6.0076 6.0076 6.0076 6.0076 7.0079 7.0079 7.0079 7.0185 7.00598	17384 17384 14426 11737 09326 20631 11735 24167 11735 24167 114425 274165 274165 274165 274165 2741663 17389 2741663 17389 2741663 17389 2741663 17389 2741663 17389 2741663 17389	Conductivity W/m.K .03591 .03610 .03581 .035742 .03733 .03701 .03693 .03910 .03915 .03910 .04146 .04153 .04146 .04127 .04426 .04127 .04428 .04403 .04715 .04683 .04695 .05009 .04996 .05023 .050323 .05323 .05323 .05323 .05323	.003 .005 .006 .002 .002 .002 .003 .002 .003 .001 .001 .001 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04455 .04430 .04438 .04719 .04731 .04715 .04731 .04715 .04739 .05016 .05057 .05079 .05329 .05329 .05347 .0538 .05371 .05638 .05661 .05671	from correlation percent
60100 60099 60098 60097 60096 60093 60091 60089 60088 60087 60088 60085 60082 60081 60082 60081 60082 60081 60080 60077 60078 60077 60078 60077 60078 60079 60079 60079 60079 60079 60079 60079 60079 60079 60079 60079 60079	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.877 11.038 11.039	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.357 307.648 309.635 309.646 309.646 309.646 307.941 309.257 308.712	TOI/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.0908 1.9986 2.8926 2.9086 2.9159 3.9213 3.9324 3.9436 3.9533 4.9610 4.9996 6.0076 6.0076 6.0076 6.0076 6.0076 6.0076 6.0076 6.0076 6.0076 6.0078 7.0055 8.0032 8.0833	#/# 17384 11737 09326 20634 11735 24167 20631 114425 27951 24155 27950 17389 27950 24146 20633 17389 27950 24146 36387 27950 24446 36383 27950 24446 36383 27950 24446 36383 27950 24446 36383 27950 24446 36383	Conductivity W/m·K .03591 .03610 .03581 .035782 .03701 .03693 .03701 .03693 .03910 .03915 .03901 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04153 .04153 .0416 .04153 .04	.003 .005 .006 .002 .002 .002 .002 .003 .002 .003 .001 .001 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03947 .04154 .04168 .04170 .04159 .04430 .04437 .0445 .04415 .04438 .04719 .04438 .04715 .04731 .04731 .04731 .04731 .04731 .04731 .04731 .04731 .050347 .05079 .05079 .050347 .050347 .05638 .05661 .056671 .05683	from correlation percent 5728276418188178125925400635350590336173 1-01 1-1058957558 1-17 1-42636971336173755875587558755875587575
60100 60099 60098 60097 60096 60093 60091 60089 60088 60087 60088 60085 60081 60080 60079 60079 60077 60077 60077 60073 60072 60071 60079	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 8.876 8.877 11.038 11.039 13.147 13.148 15.185 15.186	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.8849 308.250 307.648 309.635 309.040 308.464 309.635 309.040 308.710 308.710 308.710 308.710 308.840 308.8	mol/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.0908 1.99862 1.9996 2.89267 2.9007 2.9159 3.9213 3.9324 3.9436 3.9533 4.9610 4.99167 5.0435 6.00786 6.0785 7.0079 7.05182 7.05182 7.0533 8.9257	17384 14426 11737 09326 20634 11735 24167 20631 114425 27951 24155 20631 17401 124155 20633 17389 27950 2414630 17389 27950 20633 17389 27950 20633 17389 27950 20633 17389 20633 27955 20636 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20642 20638 207950	Conductivity W/m·K .03591 .03610 .03581 .035782 .03733 .03701 .03693 .03936 .03910 .04153 .04146 .04127 .04426 .04395 .04102 .04403 .04715 .04695 .05009 .04695 .05009 .04695 .05009 .05023 .05323 .05323 .05325 .05647 .05646 .05973	.003 .005 .005 .002 .002 .002 .002 .003 .002 .003 .001 .001 .001 .001 .001 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03732 .03734 .03945 .03945 .03942 .03947 .04154 .04159 .04159 .04457 .04159 .04457 .04415 .04430 .04438 .04719 .04731 .04715 .04739 .05016 .05057 .05079 .05329 .05347 .05638 .05661 .05671 .05683 .05976	from correlation percent 5728276418188178125925400635350590336173 1-01 1-1058957558 1-17 1-426369713341323008
60100 60099 60098 60097 60096 60093 60092 60091 60089 60088 60087 60088 60085 60081 60080 60079 60076 60077 60076 60077 60066 60067 60066 60067 60066 60067	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.877 11.038 11.039 11.0464	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.849 308.250 307.648 309.635 309.635 309.635 309.646 307.941 309.267 308.712 308.712 308.712 308.712 308.713 309.635 309.635 309.635 309.635 309.635 307.710 310.021 308.898 307.879 307.733 308.603 307.648 307.941 309.673 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770	TOI/L .4250 .4270 .4281 1.08861 1.0989 1.99844 1.99844 1.9986 2.9007 2.9153 3.926 2.9007 2.9153 3.94333 4.9610 4.9916 5.0175 6.00786 6.0787 7.0518 7.0585 8.00352 8.00353 8.9783	17384 17384 11737 09326 20634 11735 24167 20631 114425 24155 24155 24155 24155 24155 24155 24155 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 2616 27950 2616 27950 2616 27950 2795	Conductivity W/m·K .03591 .03610 .03581 .03588 .03742 .03733 .03701 .03693 .03910 .03915 .03910 .04148 .04153 .04146 .04153 .04146 .04157 .04426 .04127 .04426 .04127 .04426 .04127 .04402 .04403 .04719 .04715 .04683 .04683 .04695 .05009 .05023 .05323 .05323 .05323 .05323 .05323 .05323	.003 .005 .006 .002 .002 .002 .002 .002 .003 .002 .003 .001 .001 .001 .001 .001 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03947 .04154 .04168 .04170 .04159 .04430 .04437 .0445 .04415 .04438 .04719 .04438 .04715 .04731 .04731 .04731 .04731 .04731 .04731 .04731 .04731 .050347 .05079 .05079 .050347 .050347 .05638 .05661 .056671 .05683	from correlation percent 5728276418188178125925400635350590336173 1-01 1-1058957558 1-17 1-42636971336173755875587558755875587575
60100 60099 60098 60097 60096 60094 60093 60091 60090 60088 60087 60088 60082 60081 60082 60081 60087 60077 60069 60069 60069 60069 60069 60069 60069 60069 60069 60069 60070 60070 60070 60070 60070 60070 60070 60070 60070 60070 60070 60069 60069 60069 60069 60069 60070 60069	MPa 1.076 1.077 1.077 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 8.876 8.877 11.038 11.039 13.147 13.148 15.185 15.186	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.8849 308.250 307.648 309.635 309.040 308.464 309.635 309.040 308.710 308.710 308.710 308.710 308.840 308.8	mol/L .4258 .4270 .4282 .4291 1.08861 1.0908 1.99889 1.9986 2.9007 2.9006 2.9159 3.9213 3.9257 3.933 4.9610 4.9916 5.00786 6.00786 6.00787 7.0079 7.005187 7.005187 7.00533 8.00533 8.9257	17384 14426 11737 09326 20634 11735 24167 20631 114425 27951 24155 20631 17401 124155 20633 17389 27950 2414630 17389 27950 20633 17389 27950 20633 17389 27950 20633 17389 20633 27955 20636 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20638 27950 20642 20638 207950	Conductivity W/m·K .03591 .03610 .03581 .035782 .03733 .03701 .03693 .03936 .03910 .04153 .04146 .04127 .04426 .04395 .04102 .04403 .04715 .04695 .05009 .04695 .05009 .04695 .05009 .05023 .05323 .05323 .05325 .05647 .05646 .05973	.003 .005 .005 .002 .002 .002 .002 .003 .002 .003 .001 .001 .001 .001 .001 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03755 .03732 .03734 .03945 .03945 .03942 .03947 .04154 .04159 .04159 .04457 .04159 .04457 .04415 .04430 .04438 .04719 .04731 .04715 .04739 .05016 .05057 .05079 .05329 .05347 .05638 .05661 .05671 .05683 .05976	from correlation percent
60100 60099 60098 60097 60096 60093 60092 60091 60089 60088 60087 60088 60087 60081 60079 60078 60077 60075 60077 60075 60077 60075 60077 60070 60075 60075 60075 60075 60076 60076 60076 60077 60076 60077 60076 60077 60076 60077 60076 60077 60076 60077 60076 60077 60076 60077 60076 60077 60076 60077 60076 60077 60076 60077 60076 60077 60076 60077 60076 60077 60066 60067 60066 60067 60066 60067 60066 60067 60066 60067 60066 60067	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 8.876 8.877 11.038 11.039 11.0464	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.361 307.648 309.635 309.640 309.646 309.646 309.647 309.267 308.770 307.710 310.021 308.898 307.879 307.642 308.603 307.642 308.898 307.642 308.898 307.642 308.898 307.642 308.898 307.642 308.898 307.642 308.898 307.642 308.898 307.642 308.898 307.642 308.898 307.7031 309.7031 309.7031 309.7031 309.7031 309.7031	mol/L .4258 .4270 .4282 .4291 1.08881 1.0908 1.9939 1.9946 2.8926 2.9959 3.9214 3.9436 3.9533 4.9616 5.0197 5.0435 6.00748 6.1075 7.00518	17384 17384 11737 09326 20326 217389 14421 11735 24167 274167 274167 274167 274167 274167 274167 274167 274163 17389 27416 20633 17389 27416 20633 17389 27416 20633 17389 27416 20636 20636 20636 20642 20636	Conductivity W/m.K .03591 .03610 .03581 .035742 .03733 .03701 .03693 .03910 .03915 .03910 .04146 .04153 .04146 .04127 .04426 .04127 .04427 .04403 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04166 .0495 .05033 .05323 .05323 .05323 .05323 .05323 .05323 .05323 .05644 .05644	.003 .005 .005 .002 .002 .002 .003 .002 .003 .001 .001 .001 .001 .001 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04415 .04430 .04438 .04719 .04731 .04715 .04731 .04715 .04739 .05016 .05057 .05079 .05329 .05347 .0538 .05371 .05683 .05976 .05661 .05671 .05683 .05976	from correlation percent
60100 60099 60098 60097 60096 60093 60091 60090 60088 60087 60088 60085 60082 60081 60082 60081 60087 60077 60077 60077 60077 60077 60077 60077 60077 60077 60077 60077 60077 60077 60077 60078 60077 60069 60069 60069 60069 60077 60069 60077 60069 60069 60069 60077 60069 60069 60077 60077 60077 60069 60077 60069 60077 60069 60069 60069 60077 60069 60069 60077 60069	MPa 1.076 1.077 1.077 2.675 2.675 2.675 2.676 2.678 4.743 4.743 4.744 6.732 6.733 6.733 6.733 8.876 8.877 11.039 11.0464 10.464	309.085 308.341 307.755 307.128 309.214 308.624 308.033 307.414 309.391 308.849 308.250 307.648 309.635 309.635 309.635 309.646 307.941 309.267 308.712 308.712 308.712 308.712 308.713 309.635 309.635 309.635 309.635 309.635 307.710 310.021 308.898 307.879 307.733 308.603 307.648 307.941 309.673 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770 308.770	TOI/L .4250 .4270 .4281 1.08861 1.0989 1.99844 1.99844 1.9986 2.9007 2.9153 3.926 2.9007 2.9153 3.94333 4.9610 4.9916 5.0175 6.00786 6.0787 7.0518 7.0585 8.00352 8.00353 8.9783	17384 17384 11737 09326 20634 11735 24167 20631 114425 24155 24155 24155 24155 24155 24155 24155 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 20638 27950 24146 2616 27950 2616 27950 2616 27950 2795	Conductivity W/m·K .03591 .03610 .03581 .035782 .03701 .03696 .03910 .03915 .03910 .04146 .04127 .04427 .04427 .04428 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .04146 .04153 .0416 .04153 .0416 .04153 .0416 .04153 .0416 .04153 .0416 .04153 .0416 .04153 .0416 .04153 .0416 .04153 .0416 .04153 .0416 .04153 .0416	.003 .005 .006 .002 .002 .002 .002 .002 .003 .002 .003 .001 .001 .001 .001 .001 .001 .001	Temperature of 310 K W/m.K .03606 .03636 .03617 .03604 .03754 .03755 .03732 .03734 .03945 .03945 .03942 .03937 .04154 .04168 .04170 .04159 .04437 .04415 .04430 .04438 .04719 .04731 .04715 .04731 .04715 .04739 .05016 .05077 .05079 .05329 .05347 .05358 .05371 .05638 .05661 .05671 .05638 .05976	from correlation percent

60059	22.418	308.591	10.1725	.36391	.06422	.001	.06442	01
60058	22.418	307.806	10.2174	. 27970	.06422	• 002	.06454	11
60057	22.418	307.109	10.2575	.20643	•06411	•003	•06453	37
	26.028		11.3935					
60056		309.260		•45915	.06920	.001	.06931	08
60055	26.028	308.444	11.4416	.36385	.06941	•001	. 06965	•11
60054	26.028	307.756	11.4821	.27957	06941	•002	.06975	•01
60053	26.028	307.136	11.5190	.20632	.06952	•003	•06996	•08
60052	29.477	310.093	12.3802	.56605	.07393	.001	•07392	•31
60051	29.477	309.235	12.4302	.45930	.07395	•001	.07407	•22
60050	29.476	308.527	12.4718	.36374	.07417	•002	.07441	.41
60049	29.475	307.869	12.5103	.27962	.07430	.002	.07464	.49
60048	33.098	309.694	13.3468	.56642	.07815	.001	.07820	07
60047	33.097	308.929	13.3909	. 45962	.07827	.001	.07845	03
60046	33.098	308.143	13.4369	.36424	.07833	.001	.07864	08
	33.078	307.480	13.4758	27986	.07850	.301	•07892	.03
60045								
60044	36.518	309.498	14.1404	• 56640	.08199	•001	.08208	28
60043	36.519	308.688	14.1867	.45974	.08222	•001	.08244	13
60042	36.520	308.056	14.2230	.36418	.08215	.001	.08248	32
60041	36.521	307.447	14.2583	.27977	.08216	•002	.08259	41
60040	39.909	309.222	14.8464	.56604	.08588	.001	•08601	18
60039	39.909	308.550	14.8839	•45928	.08603	.001	.08628	12
60038	39.911	307.881	14.9216	.36395	.08621	.001	.08657	03
60037	39.914	307.206	14.9600	.27972	.08623	.002	.08671	12
60036	43.084	309.943	15.3906	.58368	.08913	.001	.08914	21
60035	43.083	309.132	15.4344	.56615	.08928	.001	.08943	18
60034	43.081	309.403	15.4736	45964	.08918	.002	08945	41
60033	43.079	307.807	15.5057	.36412	.08970	•002	.09008	.07
	46.727		16.0098		.09303	•001	•09308	05
60032		309.716		.68405				
60031	46.727	309.019	16.0464	.56624	.09312	•001	•09329	07
60030	46.726	308.324	16.0828	• 45963	.09305	•002	•09333	27
60029	46.725	307.749	16.1130	.36403	•09325	•002	.09363	16
60028	50.127	309.703	16.5254	.68344	.09630	.001	.09635	11
50027	50.126	308.899	16.5662	•56592	.09644	•001	•09662	11
60026	50.126	308.226	16.6007	.45933	.09638	.001	•09668	29
60025	50.126	307.650	16.6302	.36396	.09665	•002	•09704	12
60024	53.476	309.618	16.9956	.68350	.09950	.001	•09956	08
60023	53.476	308.897	17.0313	.56589	.09960	.001	.09978	11
60022	53.476	308.209	17.0554	.45939	.09974	•001	.10003	10
60021	53.475	307.616	17.0949	.36402	.09982	.002	.10021	13
60020	57.009	309.416	17.4585	.68371	.10283	.001	.10292	.01
60019	57.009	308.753	17.4904	.56610	.10306	.001	•10326	.11
60018	57.009	308.134	17.5202	.45956	.10301	•002	•10331	05
60017	57.008	307.513	17.5501	.36411	.10321	.002	•10360	•02
60016	60.531	309.315	17.8809	.68393	.10601	•001	.10612	•09
60015	60.530	308.655	17.9116	.56630	•10623	.001	•10644	•17
60014	60.531	308.072	17.9389	.45961	.10653	•003	.10682	• 34
60013	60.531	307.537	17.9640	.36404	.10647	.002	.10684	. 19
50012	54.078	309.320	18.2716	.68251	•10919	.001	•10929	• 27
60011	64.078	308.648	18.3021	.56485	.10926	•001	.10946	•20
60010	64.075	308.025	18.3300	.45896	.10942	.002	.10971	• 23
60009	64.077	307.462	18.3558	.36370	.10948	.002	.10985	.18
60003	66.672	313.129	18.3733	.68185	•11038	.001	.10992	•12
60002	66.678	312.494	18.4018	.56460	.11055	.001	.11019	.16
60004	66.670	311.828	18.4301	.45825	.11076	•001	•11050	.24
60001	66.685	311.372	18.4517	• 36312	.11078	•002	•11050	.10
								•49
60008	67.415	309.358	18.6139	.68343	•11215	.001	.11224	
60007	67.414	308.758	18.6402	.56591	.11244	.001	.11261	•63
60006	67.414	308.136	18.6676	.45943	.11259	• 002	•11285	• 65
60005	67.416	307.614	18.6909	.36422	.11278	•003	•11311	•71

4. Ethane Results

A total of 797 points are given in Table 4. The results are reported in [10]. The computer programs developed for the thermal conductivity surface of ethane are shown below. The equation of state used for ethane is given in [11].

```
FUNCTION C2H6TC(RHO,T)
  COEF. FROM TCO21 AND MINIMS 15 MAR 84, 4TH PASS
  DIMENSION A(3),B(9)
  DATA A/-.4324979108E-02
     .4892828913E-04 , .1250947155E-06 /
  DATA B/
     .2377714804E-02 ,-.7276758542E-06 ,-.1022365973E+02
 1 ,-.3617304226E-01 , .1027484150E-03 , .1229770283E-08
1 , .2685444816E+01 , .1345117409E-01 ,-.3761853511E-04/
TERM1=A(1)+A(2)*T+A(3)*T**2
  TERM2 = (B(1) + B(2) * T) * RHO
  BEE = EXP(B(3)+B(4)*T+B(5)*T**2+B(6)*T**3)
  ENN=B(7)+B(8)*T+B(9)*T**2
  TERM3 = BEE*RHO**ENN
  C2H6TC=TERM1+TERM2+TERM3+C2H6CR(RHU,T)
  RETURN
  END
  FUNCTION C2H6CR(RHO, TEMP)
  COEF. FROM TCO21 AND MINIMS 15 MAR 84, 4TH PASS
  DIMENSION C(6)
  DATA (TC=305.33), (RHOC=6.80)
  DATA C/-.6179783534E-01
 1 ,-.3020000000E+03 , .3546146027E+00 ,-.1036454167E-02  
1 ,-.3170704764E+00 , .3237818922E+00 /
  T=TEMP
  DEN=RHO
  IF(T.LT.TC) T=TC+(TC-T)
  IF(T.LT.340.597) GO TO 4
  C2H6CR=0.
  RETURN
4 CONTINUE
  AMPL=C(1)/(T+C(2))+C(3)+C(4)*T
  DELRHO=DEN-RHOC
  X1=C(5)*DELRHO
  IF(DEN.GT.6.80) X1=C(6)*DELRHO
  C2H6CR = AMPL * EXP(-X1 * *2)
  RETURN
  END
```

Table 4. The Thermal Conductivity of Ethane

					Experimental		Adjusted Thermel	Conductivity
					Thermal		et e nominal	deviation
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 110 K	from correlation
	MPa	K	mol/L	W/m	W/m.K		W/m.K	percent
81072	.719	112.472		1.18021	.23728	.001	• 23613	• 01
81071	•717	112.265		1.08943	•23765	.001	•23659	• 0 9
81070	•714	112.125		1.00333	.23842	.001	•23743	•36
81069	.713	111.929		•92003	.23852	•001	•23761	•34
81068	14.436	112.488		1.17941	• 24436	0.000	•24314	•07
81067	14.432	112.263		1.08880	.24454	.001	.24343	•07
81066	14.428	111.945		1.00152	.24455	.001	.24359	03
81065	14.424	111.866		.91961	• 24605	•002	.24513	• 56
81064	27.531	112.380		1.17833	• 25066	0.000	•24944	• 02
81063	27.522	112.271		1.08768	.25083	•001	•24967	•06
81062	27.514	112.016		1.00108	.25107	.001	•25004	•08
81061	27.507	111.860	21.2648	.91871	•25158	•001	•25062	• 24
81060	41.111	112.368		1.08650	•25664	•001	•25538	12 27
81059 81058	41.092 41.105	112.085 111.867	21.4326	.99996	•25644 •25671	•001	.25533	23
81057	41.095	111.688	21.4383	.91763	•25698	.001	•25571 •25607	17
81056	54.606	112.228		1.17584	.26186	.001	•26063	48
81055	54.602	112.043		1.08571	•26227	.001	.26114	37
81054	54.592	111.958		1.00016	.26280	.001	.26171	19
81053	54.584	111.824	21.5922		.26277	.001	.26175	23
81052	69.187	111.681		.91630	.26869	.001	•26772	44
81051	69.187	112.147		1.08608	.26853	.001	•26729	39
81050	69.182	112.291		1.17576	•26808	•001	•26676	52
81049	69.183	111.984		.99974	.26873	.001	•26758	35
01047	074103	1216707	2201704	4,7717	020013	1001	\$20170	• 3 9
					Experimentel		Adjusted Thermal	Conductivity
					Thermal		at a nominal	deviation
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 135 K	from correlation
	MPa	K	mol/L	W/m	₩/m•K		W/m•K	percent
81096	.443	134.971	20.0461	1.16453	.21724	0.000	•21725	•14
81095	.441	134.640		1.06426	•21770	0.000	.21782	•21
81094	.439	134.361	20.0687		•21762	0.000	.21783	•05
81093	•437	134.071	20.0795	.87763	.21817	0.000	•21847	•18
81092	13.900	134.854		1.16385	.22558	0.000	.22563	•20
81091	13.896	134.565		1.06351	.22591	0.000	•22606	•23
81090	13.892	134.184	20.3080	.96755	.22579	0.000	•22607	• 03
81089	13.886	134.078	20.3116	.87726	•22667	.001	•22699	• 38
81088	27.791	134.744		1.16294	.23321	0.000	.23330	•07
81087	27.783	134.456		1.06278	.23357	.001	•23376	•12
81086 81085	27•777 27•772	134.246	20.5247		• 23395	0.000	• 23422	•21 •32
81084	40.170	134.088 134.918	20.5299	.87687 1.26688	.23434 .23997	.001	•23467 •24000	•18
81083	40.178	134.690		1.16220	.24001	0.000	.24013	•12
81082	40.151	134.471		1.06229	•24029	.001	•24049	•17
81081	40.146	134.226		.96729	.24066	.001	.24095	.24
81080	53.222	134.401		1.06189	•24702	0.000	.24725	.15
81079	53.219	134.180	20.8863	.96629	.24709	0.000	.24741	.11
81078	53.210	134.994		1.26674	•24647	0.000	.24647	•12
81077	53.203	134.748		1.16220	.24677	.001	-24687	.16
81076	66.735	134.363		1.06149	.25355	.001	.25381	.08
81075	66.733					.004	.25387	•41
81074	66.732		21.0413			0.000	.25313	.03
81073	66.731		21.0450			0.000	.25350	•12
					Experimental		Adjusted Thermai	
D D.4				_	Thermal		at a nominal	deviation
KUN PE.						STAT	Temperature of 155 K	
	MPa	К	mol/L	¥/m	W/m - K		W/m.K	percent
81024		154 011	19.2625	1 05211	.19721	.001	•19698	•20
81023	4951						41,0,0	
	•951 •950	156.011 155.629						
	• 950	155.629	19.2771	.94894	.19766	.001	.19752	•23
81022 81021	.950 .950	155.629 155.403	19.2771 19.2858	.94894 .85082	.19766 .19783	.001	•19752 •19774	•23 •21
81022	• 950	155.629 155.403 155.076	19.2771 19.2858 19.2982	.94894 .85082 .75849	.19766 .19783 .19815	.001 .001	.19752 .19774 .19813	•23
81022 81021	.950 .950 .948	155.629 155.403 155.076 156.240	19.2771 19.2858	.94894 .85082 .75849 1.15979	.19766 .19783	.001	•19752 •19774	•23 •21 •21
81022 81021 81020	.950 .950 .948 13.362	155.629 155.403 155.076 156.240 155.886	19.2771 19.2858 19.2982 19.5215	.94894 .85082 .75849 1.15979 1.05120	.19766 .19783 .19815 .20547	.001 .001 .001	.19752 .19774 .19813 .20517	.23 .21 .21 .11
81022 81021 81020 81019	.950 .950 .948 13.362 13.368	155.629 155.403 155.076 156.240 155.886 155.578	19.2771 19.2858 19.2982 19.5215 19.5342	.94894 .85082 .75849 1.15979 1.05120 .94788	.19766 .19783 .19815 .20547 .20589	.001 .001 .001 .001	.19752 .19774 .19813 .20517 .20568	.23 .21 .21 .11 .15
81022 81021 81020 81019 81018 81017 81016	.950 .950 .948 13.362 13.368 13.365	155.629 155.403 155.076 156.240 155.886 155.578 155.271	19.2771 19.2858 19.2982 19.5215 19.5342 19.5451	.94894 .85082 .75849 1.15979 1.05120 .94788 .85014	.19766 .19783 .19815 .20547 .20589 .20601	.001 .001 .001 .001 .001	.19752 .19774 .19813 .20517 .20568 .20587	.23 .21 .21 .11 .15
81022 81021 81020 81019 81018 81017 81016 81015	.950 .950 .948 13.362 13.368 13.365 13.371 27.360 27.335	155.629 155.403 155.076 156.240 155.886 155.578 155.271 156.006 155.801	19.2771 19.2858 19.2982 19.5215 19.5342 19.5451 19.5561	.94894 .85082 .75849 1.15979 1.05120 .94788 .85014 1.15866	.19766 .19783 .19815 .20547 .20589 .20601 .20655	.001 .001 .001 .001 .001	.19752 .19774 .19813 .20517 .20568 .20587	.23 .21 .21 .11 .15 .07
81022 81021 81020 81019 81018 81017 81016 81015 81014	.950 .950 .948 13.362 13.365 13.371 27.360 27.335 27.358	155.629 155.403 155.076 156.240 155.886 155.578 155.271 156.006 155.801	19.2771 19.2858 19.2982 19.5215 19.5342 19.5451 19.5561 19.7976 19.8039 19.8182	.94894 .85082 .75849 1.15979 1.05120 .94788 .85014 1.15866 1.04995	.19766 .19783 .19815 .20547 .20589 .20601 .20655 .21455 .21483 .21534	.001 .001 .001 .001 .001 .001	.19752 .19774 .19813 .20517 .20568 .20587 .20648	.23 .21 .21 .11 .15 .07 .19 .05
81022 81021 81020 81019 81018 81017 81016 81015 81014 81013	.950 .950 .948 13.362 13.368 13.365 13.371 27.360 27.335 27.358 27.345	155.629 155.403 155.076 156.240 155.886 155.578 155.271 156.006 155.801 155.382	19.2771 19.2858 19.2982 19.5215 19.5342 19.5451 19.5561 19.7976 19.8039 19.8182	.94894 .85082 .75849 1.15979 1.05120 .94788 .85014 1.15866 1.04995 .94674	.19766 .19783 .19815 .20547 .20589 .20601 .20655 .21455 .21483 .21534	.001 .001 .001 .001 .001 .001 .001 .001	.19752 .19774 .19813 .20517 .20568 .20587 .20648 .21430 .21463 .21524	.23 .21 .21 .11 .15 .07 .19 .05 .10
81022 81021 81020 81019 81018 81017 81016 81015 81014 81013 81012	.950 .950 .948 13.362 13.365 13.365 13.371 27.360 27.358 27.358 27.358	155.629 155.403 155.076 156.240 155.886 155.578 155.271 156.006 155.801 155.382 155.255	19.2771 19.2858 19.2982 19.5215 19.5342 19.5561 19.7976 19.8039 19.8182 20.0346	.94894 .85082 .75849 1.15979 1.05120 .94788 .85014 1.15866 1.04995 .94674 .84912 1.15800	.19766 .19783 .19815 .20547 .20589 .20601 .20655 .21455 .21483 .21534 .21546 .22250	.001 .001 .001 .001 .001 .001 .001 .001	.19752 .19774 .19813 .20517 .20568 .20587 .20648 .21430 .21463 .21524 .21539	.23 .21 .21 .11 .15 .07 .19 .05 .10 .16
81022 81021 81020 81019 81018 81017 81016 81015 81014 81013 81012 81011	.950 .950 .948 13.362 13.368 13.365 13.371 27.360 27.335 27.358 27.345 40.840 40.845	155.629 155.403 155.076 156.240 155.886 155.578 155.271 156.006 155.801 155.382 155.255	19.2771 19.2858 19.2982 19.5215 19.5342 19.5561 19.7976 19.8039 19.8182 20.0346	.94894 .85082 .75849 1.15979 1.05120 .94788 .85014 1.15866 1.04995 .94674 .84912 1.15800	.19766 .19783 .19815 .20547 .20589 .20601 .20655 .21455 .21483 .21534 .21546 .2250	.001 .001 .001 .001 .001 .001 .001 .001	.19752 .19774 .19813 .20517 .20568 .20587 .20648 .21430 .21463 .21524 .21539 .22227	.23 .21 .21 .11 .15 .07 .19 .05 .10 .16 .17
81022 81021 81020 81019 81018 81017 81016 81015 81014 81013 81012 81011	.950 .950 .948 13.362 13.368 13.365 13.371 27.360 27.335 27.358 27.345 40.840 40.845 40.853	155.629 155.403 155.076 156.240 155.886 155.578 155.271 156.006 155.801 155.382 155.255 155.870	19.2771 19.2858 19.2982 19.5215 19.5342 19.5561 19.7976 19.8039 19.8182 19.8222 20.0346 20.0417 20.0537	.94894 .85082 .75849 1.15979 1.05120 .94788 .85014 1.15866 1.04995 .94674 .84912 1.15800 1.04989 .94635	.19766 .19783 .19815 .20547 .20589 .20601 .20655 .21455 .21483 .21534 .21546 .2250 .22309	.001 .001 .001 .001 .001 .001 .001 .001	.19752 .19774 .19813 .20517 .20568 .20587 .20648 .21430 .21463 .21524 .21539 .22227	.23 .21 .21 .11 .15 .07 .19 .05 .10 .16 .17 07
81022 81021 81020 81019 81018 81017 81016 81015 81014 81013 81012 81011	.950 .950 .948 13.362 13.368 13.365 13.371 27.360 27.335 27.358 27.345 40.840 40.845	155.629 155.403 155.076 156.240 155.886 155.578 155.271 156.006 155.801 155.382 155.255 155.870	19.2771 19.2858 19.2982 19.5215 19.5342 19.5561 19.7976 19.8039 19.8182 20.0346	.94894 .85082 .75849 1.15979 1.05120 .94788 .85014 1.15866 1.04995 .94674 .84912 1.15800 1.04989 .94635	.19766 .19783 .19815 .20547 .20589 .20601 .20655 .21455 .21483 .21534 .21546 .2250	.001 .001 .001 .001 .001 .001 .001 .001	.19752 .19774 .19813 .20517 .20568 .20587 .20648 .21430 .21463 .21524 .21539 .22227	.23 .21 .21 .11 .15 .07 .19 .05 .10 .16 .17

81008	53.815	156.283	20 22 80	1.27105	.22987	0.000	.22952	• 09
81007	53.813	155.908		1.15699	.23018	.001	.22993	.09
81006	53.813	155.688		1.04892	.23056	.001	.23037	.18
81005	53.808	155.405	20.2542	.94565	.23066	.001	.23055	•12
81004	67.356	156.172		1.27085	.23758	.001	.23725	• 20
81003	67.356	155.796		1.15668	.23770	.001	.23747	. 13
81002	57.352	155.602		1.04875	.23814	.001	.23797	. 25
81001	57.348	155.390	20.4538	.94524	.23802	.001	.23791	• 13
					Experimental		Adjusted Thermai	Conductivity
					Therwal		at a nominal	deviation
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 175 K	from correlation
	MPa	K	moi/L	W/m	W/m.K		₩/m•K	percent
81048	1.019	175.465	18.5019	.97794	.17714	.001	•17706	20
81047	1.018	175.148	18.5146	.87206	•17754	.001	.17751	 16
81046	1.014	174.727	18.5314	•77209	.17816	.001	.17821	04
81045	1.013	174.391	18.5448	.67870	.17852	.001	.17863	03
81044	13.930	175.765		1.08985	.18721	0.000	•18707	10
81043	13.927	175.298	18.8492	.97715	.18733	.001	.18728	27
81042	13.923	174.912	18.8631	.87128	.18770	.001	•18772	26
81041	13.916	174.645	18.8726	•77168	.18813	.001	•18819	-•16 - 36
81040	27.796 27.794	175.447	19.1565	1.08822	•19703 •19726	.001	•19695 •19722	-•26 -•24
81039 81038	27.798	175.218 174.668	19.1850	.87053	.19783	.001	19789	20
81037	27.797	174.450	19.1923	.77088	19822	.001	.19832	10
81036	41.317	175.339		1.08796	.20591	.001	.20584	27
81035	41.317	174.999	19.4442	.97617	.20635	.001	.20635	19
81034	41.317	174.650	19.4551	.87058	.20681	.001	.20688	11
81033	41.310	174.355	19.4642	.77100	.20717	.001	.20730	06
81032	53.962	175.581		1.20648	.21372	.001	.21360	13
81031	53.957	175.267		1.08805	.21395	.001	.21390	14
81030	53.955	175.004	19.6730	.97625	.21426	.001	.21426	10
81029	53.949	174.706	19.6817	.87025	.21430	.001	.21436	19
81028	66.405	175.540	19.8657	1.20471	.22104	.001	•22093	11
81027	66.399	175.276	19.8731	1.08657	.22136	.001	.22130	06
81025	66.379	174.808	19.8850	.97479	•22167	.301	•22171	08
81025	66.377	174.635	19.8909	.86914	.22202	.001	.22210	• 02
					Experimental		Adjusted Thermal	-
0					Thermei		at a nominal	deviation
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 195 K	
	MPa	К	moi/L	W/m	W/m .K		W/m·K	percent
80040	.950	195.294	17.6766	.87502	.15772	.001	18740	08
80039	949	194.868	17.6949	.76891	.15803	.001	•15768 •15805	15
80038	948	194.550	17.7085	.67000	.15849	.001	•15855	05
80037	.947	194.219	17.7227	.57768	.15892	.001	.15903	•02
80036	14.520	195.460	18.1208	.98654	.16938	.001	.16931	25
80035	14.520	195.134	18.1330	.87347	.17005	.001	.17003	03
80034	14.521	194.717	18.1487	.76785	.17051	.001	.17055	• 02
80033	14.520	194.349	18.1625	.66885	•17075	.001	.17084	03
80032	27.378	195.334	18.4779	.98607	.17982	.001	.17977	08
80031	27.372	194.895	18.4927	.87365	.18035	.001	.18037	.01
80030	27.368	194.640	18.5013	.76780	.18052	.001	.18057	01
80029	27.363	194.243	18.5147	.66881	.18098	.001	.18109	.06
80028	39.331	195.664		1.10423	.18798	.001	.18788	11
80027	39.325	195.269	18.7646		.18860	.301	·188 5 6	• 05
80026	39.325	194.871	18.7773	.87231	.18888	.001	.18890	• 0 2
80025	39.318	194.474	18.7897	.76704	.18934	• 001	.18942	.10
80024								
	53.388	195.893	19.0434		.19732	.001	•19719	.03
80023	53.388	195.491	19.0553	1.10390	•19762	.001 .001	•19755	.02
80022	53.388 53.386	195.491 195.045	19.0553 19.0685	1.10390 .98461	•19762 •19809	.001 .001	•19755 •19808	.02
80022 80021	53.388 53.386 53.379	195.491 195.045 194.639	19.0553 19.0685 19.0804	1.10390 .98461 .87217	•19762 •19809 •19842	.001 .001 .001	•19755 •19808 •19847	.02 .08 .09
80022 80021 80020	53.388 53.386 53.379 67.210	195.491 195.045 194.639 195.695	19.0553 19.0685 19.0804 19.3123	1.10390 .98461 .87217 1.23013	•19762 •19809 •19842 •20594	.001 .001 .001 .001	•19755 •19808 •19847 •20584	.02 .08 .09 .02
80022 80021 80020 80019	53.388 53.386 53.379 67.210 67.208	195.491 195.045 194.639 195.695 195.277	19.0553 19.0685 19.0804 19.3123 19.3240	1.10390 .98461 .87217 1.23013 1.10370	.19762 .19809 .19842 .20594 .20610	.001 .001 .001 .001 .001	•19755 •19808 •19847 •20584 •20606	.02 .08 .09 .02 06
80022 80021 80020 80019 80018	53.388 53.386 53.379 67.210 67.208 67.210	195.491 195.045 194.639 195.695 195.277 194.985	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322	1.10390 .98461 .87217 1.23013 1.10370 .98419	.19762 .19809 .19842 .20594 .20610 .20646	.001 .001 .001 .001 .001	•19755 •19808 •19847 •20584 •20606 •20646	.02 .08 .09 .02 06
80022 80021 80020 80019 80018 80017	53.388 53.386 53.379 67.210 67.208 67.210 67.215	195.491 195.045 194.639 195.695 195.277 194.985 194.585	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 19.3435	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159	.19762 .19809 .19842 .20594 .20610 .20646 .20692	.001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698	.02 .08 .09 .02 06 .00
80022 80021 80020 80019 80018 80017 80016	53.388 53.386 53.379 67.210 67.208 67.210 67.215	195.491 195.045 194.639 195.695 195.277 194.985 194.585	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 19.3435 17.6766	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702	.001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698	.02 .08 .09 .02 06 .00 .07
80022 80021 80020 80019 80018 80017 80016 80015	53.388 53.386 53.379 67.210 67.208 67.210 67.215 .926	195.491 195.045 194.639 195.695 195.277 194.985 194.585 194.583	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 19.3435 17.6766 17.6965	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702	.001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698	.02 .08 .09 .02 06 .00 .07 52
80022 80021 80020 80019 80018 80017 80016	53.388 53.379 67.210 67.228 67.210 67.215 .926 .926	195.491 195.045 194.645 195.695 195.277 194.985 194.585 195.273 194.811 194.391	19.0553 19.0685 19.0804 19.3123 19.3240 19.3325 17.6766 17.6965 17.7145	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831 .66929	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758	.02 .08 .09 .02 06 .00 .07 52 47
80022 80021 80020 80019 80018 80017 80016 80015	53.388 53.379 67.210 67.228 67.210 67.215 .926 .926	195.491 195.045 194.639 195.695 195.277 194.985 194.585 194.583	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 19.3435 17.6766 17.6965	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755 .15794 .15832	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758 .15803	.02 .08 .09 .02 06 .00 .07 52 47 48
80022 80021 80020 80019 80018 80017 80016 80015 80014	53.388 53.386 53.379 67.210 67.208 67.215 .926 .926	195.491 195.045 194.639 195.695 195.277 194.985 194.585 195.273 194.811 194.391	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 19.3435 17.6766 17.6965 17.7145 17.7242	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831 .66929 .57725	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758	.02 .08 .09 .02 06 .00 .07 52 47 48 36
80022 80021 80020 80019 80018 80017 80016 80015 80014 80013	53.388 53.379 67.210 67.210 67.215 .926 .926 .926 11.514	195.491 195.045 194.639 195.695 195.277 194.985 194.585 195.273 194.811 194.391 194.165	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 19.3435 17.6766 17.7145 17.7242 18.0269	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831 .66929 .57725 .98613	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755 .15794 .15832 .16633	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758 .15803 .15844	.02 .08 .09 .02 06 .00 .07 52 47 48 38
80022 80021 80020 80019 80018 80017 80016 80015 80014 80013 80012 90011	53.388 53.386 53.379 67.210 67.210 67.215 .926 .926 .926 .926 11.514 11.513	195.491 195.045 194.639 195.695 195.277 194.985 194.585 194.811 194.391 194.165 195.518	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 19.3435 17.6766 17.6765 17.7145 17.7242 18.0269 18.0432	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831 .66929 .57725 .98613 .87354	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755 .15794 .15832 .16633	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758 .15803 .15844 .16626	.02 .08 .09 .02 06 .00 .07 52 47 48 36
80022 80021 80020 80019 80016 80017 80016 80015 80012 80012 80011 80012 80010 80009 80008	53.388 53.386 53.379 67.210 67.210 67.215 .926 .926 .926 .926 .926 .1.514 11.513 11.503 11.498 20.838	195.491 195.045 194.639 195.695 195.277 194.985 195.273 194.585 195.273 194.811 194.391 194.165 195.518 195.096 194.602 194.370 195.405	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 17.6766 17.6765 17.7145 17.7242 18.0269 18.0432	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831 .66929 .57725 .98613 .87354 .76784	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755 .15794 .15832 .16633 .16677	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758 .15803 .15844 .16626 .16676	.02 .08 .09 .02 06 .00 .07 52 47 48 36 54
80022 80021 80020 80019 80018 80017 80016 80015 80014 80013 80012 90011 80010 80009 80009 80007	53.388 53.386 53.379 67.210 67.210 67.215 .926 .926 .926 .926 11.514 11.513 11.503 11.498 20.838 20.835	195.491 195.045 194.639 195.695 195.277 194.985 194.585 194.811 194.391 194.391 194.105 195.518 195.518 195.606 194.602 194.370 195.405	19.0553 19.0685 19.0804 19.3123 19.3240 19.3435 17.6766 17.6765 17.7145 18.0269 18.0432 18.0619 18.0707 18.3032 18.3172	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831 .66929 .57725 .98613 .87354 .666893 .986625 .87366	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755 .15794 .15832 .16633 .16677 .16740 .16741	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758 .15803 .15844 .16626 .16676	.02 .08 .09 .02 06 .00 .07 52 47 48 38 54 50
80022 80021 80020 80019 80018 80017 80016 80015 80014 80013 80012 90011 80010 80009 80008 80007 80006	53.388 53.386 53.379 67.210 67.210 67.215 .926 .927	195.491 195.045 194.639 195.695 195.277 194.985 195.273 194.811 194.391 194.165 195.518 195.096 194.602 194.370 195.405 195.405	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 17.6766 17.6765 17.7145 17.7242 18.0269 18.0619 18.0619 18.0332 18.3311	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831 .66929 .57725 .98613 .87354 .66893 .98625 .87366 .76796	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15755 .15794 .15832 .16633 .16677 .16740 .16741 .17422 .17463 .17514	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758 .15803 .15844 .16626 .16676 .16746 .16750 .17416	.02 .08 .09 .02 -06 .00 .07 52 47 48 36 54 50 39 51 41
80022 80021 80020 80019 80018 80017 80016 80015 80014 80013 80012 90011 80010 80009 80008 80007 80006 80005	53.388 53.379 67.210 67.210 67.215 .926 .927 .926 .927 .928 .928 .928 .928 .938 .9	195.491 195.045 194.639 195.695 195.277 194.985 195.273 194.881 195.273 194.391 194.165 195.518 195.096 194.602 194.370 195.405 195.601 195.405	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 17.6766 17.6765 17.7145 18.0269 18.0432 18.0519 18.0707 18.3032 18.3172 18.3311	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831 .66929 .57725 .98613 .87354 .66893 .98625 .87366 .76796	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755 .15794 .15832 .16633 .16677 .16740 .16741 .17422 .17463 .17514	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758 .15803 .15844 .16626 .16676 .16750 .17416 .17463 .17519	.02 .08 .09 .02 06 .00 .07 52 47 48 38 54 50 39 51 41
80022 80021 80020 80019 80016 80017 80015 80015 80012 90011 80013 80012 90011 80009 80008 80007 80006 80005 80006	53.388 53.379 67.210 67.210 67.215 .926 .926 .926 .926 11.514 11.513 11.503 11.498 20.838 20.838 20.837 20.831 29.520	195.491 195.045 194.985 195.277 194.985 195.273 194.585 195.273 194.811 194.391 194.165 195.518 195.096 194.602 194.370 195.405 195.405 195.405 195.405	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 19.3435 17.6766 17.7145 17.7242 18.0269 18.0432 18.0432 18.0519 18.3311 18.3426 18.5194	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831 .66929 .57725 .98613 .87354 .66893 .98625 .87366 .76784	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755 .15794 .15832 .16633 .16677 .16740 .16741 .17422 .17463 .17514 .17518	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758 .15803 .15844 .16626 .16676 .16746 .16750 .17416 .17463 .17519 .17528 .18053	.02 .08 .09 .02 06 .00 .07 52 47 48 38 54 50 39 51 41 37 27
80022 80021 80020 80019 80018 80017 80016 80015 80012 80011 80010 80009 80008 80007 80006 80007 80006 80005	53.388 53.386 53.379 67.210 67.210 67.215 .926 .926 .926 11.514 11.513 11.503 11.498 20.838 20.835 20.837 20.831 29.520 29.517	195.491 195.045 194.639 195.695 195.277 194.985 195.273 194.811 194.391 194.391 194.165 195.518 195.096 194.602 194.391 195.605 195.605 195.605 195.605 195.605 195.605	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 19.3435 17.6766 17.7145 17.7242 18.0269 18.0432 18.0619 18.0707 18.3032 18.3172 18.3311 18.3426 18.5336	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831 .66929 .57725 .98613 .87354 .66893 .98625 .87366 .76796 .66893 .98565	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755 .15794 .15832 .16633 .16677 .16740 .16741 .17422 .17463 .17514 .17518	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758 .15803 .15844 .16626 .16676 .16746 .16746 .17463 .17519 .17528 .18095	.02 .08 .09 .02 -06 .00 .07 52 47 48 38 54 50 39 51 41 37 27 41
80022 80021 80020 80019 80018 80017 80016 80015 80014 80013 80012 90011 80010 80009 80007 80006 80007 80006 80005 80004	53.388 53.379 67.210 67.210 67.215 .926 .926 .926 .926 .926 .926 .926 .926 .926 .926 .926 .926 .926 .927 .928 .928 .929 .9	195.491 195.045 194.645 195.695 195.277 194.985 195.273 194.811 194.391 194.165 195.518 195.518 195.696 194.602 194.370 195.405 195.695 195.695 195.695 195.695 195.272 194.914	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 17.6766 17.6765 17.7145 18.0269 18.0432 18.0619 18.0519 18.3311 18.3426 18.35194	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87406 .76831 .66929 .57725 .98613 .87354 .76784 .66893 .98625 .87366 .76796 .66887 1.10534 .98565 .87392	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755 .15794 .15832 .16633 .16677 .16740 .16741 .17422 .17463 .17514 .17518	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758 .15803 .15844 .16626 .16676 .16746 .16750 .17416 .17463 .17519 .17528 .18053 .18095	.02 .08 .09 .02 -06 .00 .07 52 47 48 38 54 50 39 51 41 37 27 41
80022 80021 80020 80019 80018 80017 80016 80015 80012 80011 80010 80009 80008 80007 80006 80007 80006 80005	53.388 53.386 53.379 67.210 67.210 67.215 .926 .926 .926 11.514 11.513 11.503 11.498 20.838 20.835 20.837 20.831 29.520 29.517	195.491 195.045 194.639 195.695 195.277 194.985 195.273 194.811 194.391 194.391 194.165 195.518 195.096 194.602 194.391 195.605 195.605 195.605 195.605 195.605 195.605	19.0553 19.0685 19.0804 19.3123 19.3240 19.3322 19.3435 17.6766 17.7145 17.7242 18.0269 18.0432 18.0619 18.0707 18.3032 18.3172 18.3311 18.3426 18.5336	1.10390 .98461 .87217 1.23013 1.10370 .98419 .87159 .87406 .76831 .66929 .57725 .98613 .87354 .66893 .98625 .87366 .76796 .66893 .98565	.19762 .19809 .19842 .20594 .20610 .20646 .20692 .15702 .15755 .15794 .15832 .16633 .16677 .16740 .16741 .17422 .17463 .17514 .17518	.001 .001 .001 .001 .001 .001 .001 .001	.19755 .19808 .19847 .20584 .20606 .20646 .20698 .15698 .15758 .15803 .15844 .16626 .16676 .16746 .16746 .17463 .17519 .17528 .18095	.02 .08 .09 .02 -06 .00 .07 52 47 48 38 54 50 39 51 41 37 27 41

					Experimental		Adjusted Thermal	
0 D. A	Pressure	Tanasaskuss	Density	Daves	Thermal	CTAT	at a nominal	devietion
Run Pt.	MPa	Temperature K	mol/L	Power W/m	Conductivity W/m.K	STAT	Tempereture of 215 K	
	nra	Α.	# 017 L	W / GI	₩ / № 0 ▷		M ≠ M ◆ N	percent
80064	1.071	215.119	16.7880	.74791	.13923	.001	•13921	•22
80063	1.071	214.672	16.8092	.64502	.13935	.001	•13939	00
80062	1.070	214.330	16.8253	.54983	.13992	.001	•14001	.18
80061	1.069	213.891	16.8459	.46250	.14007	.002	.14022	01
80060	14.225	215.378	17.3438	.85777	.15184	.001	•15179	20
80059	14.224	214.926	17.3617	.74742	.15242	.001	.15243	07
80058	14.221	214.510	17.3780	.64467	•15276	.001	•15282	07
80057	14.219	214.110	17.3937	.54978	.15299	•002	.15311	14
80056	27.594	215.508	17.7876	.97548	•16312	.001	.16306	22
80055	27.590	215.106	17.8015	•85729	•16372	.001	•16371	05
80054	27.587	214.652	17.8173	•74706	•16404	.001	•16 40 8	07
80053	27.588	214.335	17.8284	.64436	•16445	.001	•16453	• 02
80052	40.919	215.396	18.1631	•97439	.17357	•001	•17352	04
80051	40.926	215.020	18.1752	.85649	.17343	.001	•17343	29
80050	40.929	214.622	18.1880	.74633	.17414	.001	.17419	06
80049	40.933	214.260	18.1996	.64372	.17447	.001	•17456	03
80048	53.959	215.637	18.4712		.18253	.001	•18245	• 0.5
80047	53.960	215.290	18.4815	.97363	•18275	.001	.18272	• 02
80046	53.957	214.860	18.4941	.85612	.18337	.001	.18339	•19
80045	53.951	214.434	18.5066	.74606	.18361	.001	.18368	• 15
80044	67.543	215.446	18.7687		.19185	.001	•19180	• 31
80043	67.543	214.923	18.7832	.97406	.19211	.001	•19212	• 24
80042	67.544	214.749	18.7880	.85595	.19233	.001	•19236	• 2 9
80041	67.539	214.269	18.8013	.74590	•19230	.001	•19238	•09
					Experimental		Adjusted Thermal	Conductivity
					Thermal		at e nominal	devietion
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Tempereture of 225 K	
Kun Ft.	MPa	K	mol/L	M/W	W/m.K	JIAI	M/w•K	percent
		15	40176	W 7 (3)	M F III O PS		# F III # 15	percent
83032	.282	226.278	.1580	.08368	.01371	.003	.01358	1.54
83031	.282	225.462	.1586	.06638	.01358	.004	.01353	1.21
83030	.282	224.462	.1595	.05111	.01347	.005	•01353	1.16
83029	.282	223.753	.1601	.03786	.01348	.008	.01361	1.76
83028	4.01	222 606	22/2					
	• 401	223 0 D U 9	0 2 3 4 3	.03786	•01359	.008	.01374	1.45
	.401 .406	223.604 226.046	.2343	.03786	.01359 .01388	.008	.01374 .01377	1.46 1.71
83027 83026	•406 •409	226.046 225.279	.2339 .2365	.03786 .08364 .06637	.01359 .01388 .01380	.008 .003	.01374 .01377 .01377	1.46 1.71 1.67
83027	•406	226.046	.2339	.08364	.01388	.003	•01377	1.71
83027 83026	•406 •409	226.046 225.279	.2339 .2365	.08364 .06637	.01388 .01380 .01373	.003	.01377 .01377 .01381	1.71 1.67 1.89
83027 83026	•406 •409	226.046 225.279	.2339 .2365	.08364 .06637	.01388 .01380 .01373	.003	.01377 .01377 .01381 Adjusted Thermel	1.71 1.67 1.89 Conductivity
83027 83026 83025	.406 .409 .411	226.046 225.279 224.256	.2339 .2365 .2395	.08364 .06637 .05109	.01388 .01380 .01373 Experimental Thermal	.003 .004 .005	.01377 .01377 .01381 Adjusted Thermel at a nominal	1.71 1.67 1.89 Conductivity deviation
83027 83026	.406 .409 .411	226.046 225.279 224.256	.2339 .2365 .2395	.08364 .06637 .05109	.01388 .01380 .01373 Experimental Thermal Conductivity	.003	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K	1.71 1.67 1.89 Conductivity deviation from correlation
83027 83026 83025	.406 .409 .411	226.046 225.279 224.256	.2339 .2365 .2395	.08364 .06637 .05109	.01388 .01380 .01373 Experimental Thermal	.003 .004 .005	.01377 .01377 .01381 Adjusted Thermel at a nominal	1.71 1.67 1.89 Conductivity deviation
83027 83026 83025	.406 .409 .411 Pressure	226.046 225.279 224.256 Temperature K	.2339 .2365 .2395 Density mol/L	.08364 .06637 .05109	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K	.003 .004 .005	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K	1.71 1.67 1.89 Conductivity deviation from correlation
83027 83026 83025 Run Pt.	.406 .409 .411 Pressure MPa .270	226.046 225.279 224.256	.2339 .2365 .2395 Density moi/L	.08364 .06637 .05109 Power W/%	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411	.003 .004 .005	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433	1.71 1.67 1.89 Conductivity deviation from correlation percent
83027 83026 83025 Run Pt. 83044 83043	.406 .409 .411 Pressure MPa .270 .270	226.046 225.279 224.256 Temperature K 232.979 235.295	.2339 .2365 .2395 Density moi/L .1461 .1445	.08364 .06637 .05109 Power W/1 .02789 .06957	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446	.003 .004 .005	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443	1.71 1.67 1.89 Conductivity deviation from correlation percent54
83027 83026 83025 Run Pt. 83044 83043 83042	.406 .409 .411 Pressure MPa .270 .270 .271	226.046 225.279 224.256 Temperature K 232.979	.2339 .2365 .2395 Density moi/L .1461 .1445	.08364 .06637 .05109 Power W/T .02789 .06957 .05358	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411	.003 .004 .005 STAT .012 .003 .005	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443	1.71 1.67 1.89 Conductivity deviation from correlation percent54 .19
83027 83025 83025 Run Pt. 83044 83043 83042 83041	.406 .409 .411 Pressure MPa .270 .270 .271	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661	.2339 .2365 .2395 Density moi/L .1461 .1465 .1465	.08364 .06637 .05109 Power W/11 .02789 .06957 .05358 .03970	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425	.003 .004 .005 STAT .012 .003 .005 .007	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439	1.71 1.67 1.89 Conductivity deviation from correlation percent54 .1905
83027 83026 83025 Run Pt. 83044 83043 83042	.406 .409 .411 Pressure MPa .270 .270 .271	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388	.2339 .2365 .2395 Density moi/L .1461 .1445	.08364 .06637 .05109 Power W/T .02789 .06957 .05358	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433	.003 .004 .005 STAT .012 .003 .005	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443	1.71 1.67 1.89 Conductivity deviation from correlation percent54190507
83027 83026 83025 Run Pt. 83044 83043 83042 83041 83040	.406 .409 .411 Pressure MPa .270 .271 .271 .271	226.046 225,279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876	.2339 .2365 .2395 Density moi/L .1461 .1445 .1450 .1460 .2234	.08364 .06637 .05109 Power W/1 .02789 .06957 .05358 .03970	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474	.003 .004 .005 STAT .012 .003 .005 .007	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .19 05 07 .49
83027 83026 83025 Run Pt. 83044 83043 83042 83041 83040 83039	.406 .409 .411 Pressure MPa .270 .270 .271 .271 .409 .412	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.098 234.239 233.532	.2339 .2365 .2395 Density moi/L .1461 .1455 .1450 .2234 .2264 .2287	.08364 .06637 .05109 Power W/a .02789 .067358 .03970 .08767 .06958 .05357	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01461	.003 .004 .005 STAT .012 .003 .007 .007	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01462 .01459 .01462	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .19 05 07 .49 .26 .04 .18
83027 83025 83025 Run Pt. 83044 83043 83042 83041 83040 83039 83038	.406 .409 .411 Pressure MPa .270 .270 .271 .271 .409 .412	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.098 234.239	.2339 .2365 .2395 Density moi/L .1461 .1445 .1455 .1460 .2234 .2264	.08364 .06637 .05109 Power W/m .02789 .06957 .05358 .03970 .08767 .06958	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451	.003 .004 .005 STAT .012 .003 .007 .003 .004 .005	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01465 .01462 .01459	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .19 05 07 .49 .26 .04 .18
83027 83025 83025 Run Pt. 83044 83043 83042 83041 83040 83039 83038	.406 .409 .411 Pressure MPa .270 .270 .271 .271 .409 .412 .415	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.098 234.239 233.532	.2339 .2365 .2395 Density moi/L .1461 .1455 .1450 .2234 .2264 .2287	.08364 .06637 .05109 Power W/a .02789 .067358 .03970 .08767 .06958 .05357	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01461	.003 .004 .005 STAT .012 .003 .007 .007	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01443 .01449 .01459 .01462 .01459 .01462 .01499 .01498	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .19 05 07 .49 .26 .04 .18 .99 .90
83027 83025 83025 Run Pt. 83044 83042 83041 83040 83039 83037 83036	.406 .409 .411 Pressure MP8 .270 .271 .271 .409 .412 .415 .417 .602 .606	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.098 234.239 233.532 235.696 234.802 234.098	.2339 .2365 .2395 Density moi/L .1461 .1445 .1455 .1460 .2234 .2264 .2287 .2311 .3422 .3463 .3498	.08364 .06637 .05109 Power W/1 .02789 .06957 .05358 .03970 .08767	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01489	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01465 .01462 .01499	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89
83027 83025 83025 Run Pt. 83044 83043 83042 83041 83040 83039 83038 83037 83036 83035	.406 .409 .411 Pressure MPa .270 .271 .271 .409 .412 .415 .417 .602	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.098 234.239 233.532 235.696 234.802	.2339 .2365 .2395 Density moi/L .1461 .1445 .1455 .1450 .2234 .2264 .2287 .2311 .3422 .3463	.08364 .06637 .05109 Power W/m .02789 .06957 .05358 .03970 .08767 .06958	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496	.003 .004 .005 STAT .012 .003 .007 .003 .004 .005 .007	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01465 .01462 .01459 .01462 .01499 .01499	1.71 1.67 1.89 Conductivity deviation from correlation percent5419050749260418
83027 83025 83025 Run Pt. 83044 83042 83041 83040 83039 83037 83036 83037 83036 83037	.406 .409 .411 Pressure MPa .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.098 234.239 233.532 235.696 234.802 234.802 234.802 234.802 234.802	.2339 .2365 .2395 Density moi/L .1461 .1445 .1455 .1460 .2234 .2267 .2311 .3422 .3463 .3498 .3535 15.7923	.08364 .06637 .05109 Power W/T .02789 .06957 .05358 .03970 .08767 .06958 .05357 .03970 .08761	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01481 .01481	.003 .004 .005 STAT .012 .003 .007 .003 .004 .005 .007 .003	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01462 .01459 .01462 .01499 .01498 .01499 .01497 .01497	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .19 05 07 .49 .26 .04 .18 .99 .90 .89 .75
83027 83025 83025 Run Pt. 83044 83043 83040 83039 83037 83036 83037 83035 83035 83037	.406 .409 .411 Pressure MPa .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736	226.046 225,279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.098 234.239 233.532 235.696 234.802 234.802 234.98 233.663 235.623 235.623	.2339 .2365 .2395 Density moi/L .1461 .1445 .1455 .1450 .2234 .2264 .2287 .2311 .3422 .3463 .3498 .3535 15.7923 15.8194	.08364 .06637 .05109 Power W/m .02789 .06957 .05358 .03970 .08761 .06955 .05356 .03967 .71227 .60752	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01489 .01481 .12104	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .003	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01449 .01455 .01465 .01462 .01459 .01462 .01499 .01499 .01499 .01499 .01499 .01497 .12095 .12154	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21
83027 83025 83025 Run Pt. 83044 83042 83041 83042 83037 83038 83037 83035 83035 83037 83035 79075 79075	.406 .409 .411 Pressure MP8 .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1.736	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.908 234.239 233.532 235.696 234.802 234.098 234.098 233.468 235.623 235.623	.2339 .2365 .2395 Density moi/L .1461 .1455 .1455 .1460 .2234 .2267 .2311 .3422 .3463 .3498 .3535 15.7923 15.8194 15.8427	.08364 .06637 .05109 Power W/m .02789 .06957 .05358 .03970 .08761 .06955 .05356 .03967 .71227 .60752 .51087	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01496 .01489 .01481 .12104 .12156 .12180	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .003 .005 .007	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01465 .01462 .01499 .01499 .01498 .01499 .01497 .12095 .12154 .12184	1.71 1.67 1.89 Conductivity deviation from correlation percent 54190507492604189990
83027 83025 83025 Run Pt. 83044 83042 83041 83040 83037 83036 83037 83036 83037 83035 83037 83035 83037	.406 .409 .411 Pressure MP8 .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1.736 1.736 1.736	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.876 235.876 235.606 234.623 235.602 234.098 234.68 235.623 235.623 235.623 235.623	.2339 .2365 .2395 Density moi/L .1461 .1445 .1455 .1460 .2234 .2264 .2287 .2311 .3422 .3463 .3535 15.7923 15.8194 15.8427 16.5361	.08364 .06637 .05109 Power W/T .02789 .06957 .05358 .03970 .08767 .06955 .05356 .03970 .08761 .06955 .05356 .03967 .71227 .60752 .51087 .82604	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01496 .01489 .01481 .12104 .12156 .12180 .13584	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .003 .005 .007	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01465 .01462 .01459 .01462 .01499 .01499 .01497 .12095 .12154 .12184	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .0920
83027 83026 83025 Run Pt. 83044 83042 83041 83040 83037 83036 83037 83036 83037 83036 83037 83036 83037	.406 .409 .411 Pressure MPa .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1.736 1.736 1.736 1.736 1.736	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.098 234.239 233.532 235.696 234.802 234.802 234.802 234.802 234.802 235.623 235.623 235.623 235.623 235.637 235.8390	.2339 .2365 .2395 Density moi/L .1461 .1445 .1455 .1460 .2234 .2267 .2311 .3422 .3463 .3498 .3535 15.7923 15.8194 15.8427 16.5361 16.5545	.08364 .06637 .05109 Power W/T .02789 .06957 .05358 .03970 .08767 .06955 .05356 .03970 .08761 .06955 .05356 .03967 .71227 .60752 .51087 .82604 .71237	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01481 .12104 .12156 .12180 .13584 .13610	.003 .004 .005 STAT .012 .003 .005 .007 .003 .004 .005 .007 .003 .005	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01462 .01459 .01462 .01499 .01498 .01499 .01497 .12095 .12154 .13573 .13605	1.71 1.67 1.89 Conductivity deviation from correlation percent54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .092026
83027 83026 83025 Run Pt. 83044 83043 83040 83039 83036 83037 83036 83037 83036 79075 79075 79072 79071	.406 .409 .411 Pressure MPa .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1	226.046 225,279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.098 234.239 233.532 235.696 234.802 234.802 234.802 234.802 234.803 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623	.2339 .2365 .2395 Density moi/L .1461 .1445 .1455 .1450 .2234 .2264 .2287 .2311 .3422 .3463 .3498 .3535 15.7923 15.8194 15.8427 16.5361 16.5545 16.5751	.08364 .06637 .05109 Power W/1 .02789 .06957 .03970 .08767 .03970 .08761 .06955 .05356 .03970 .08761 .06955 .05356 .03967 .71227 .60752 .51087 .82604 .71237	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01489 .01481 .12104 .12156 .12180 .13584 .13610 .13645	.003 .004 .005 STAT .012 .003 .005 .007 .003 .004 .005 .007 .003 .005 .007 .001 .001	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01443 .01449 .01459 .01465 .01462 .01499 .01498 .01499 .01498 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13646	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .09202629
83027 83026 83025 Run Pt. 83044 83042 83041 83042 83037 83038 83037 83035 83037 83035 79075 79072 79072 79072 79071	.406 .409 .411 Pressure MP8 .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1.736 1.736 1.736 14.814 14.808 14.807 14.795	226.046 225.279 224.256 Tempersture K 232.979 235.295 234.388 233.661 235.876 234.239 233.532 235.696 234.802 234.098 234.098 234.698 235.623 235.623 235.623 235.636 234.896 234.896 234.395	.2339 .2365 .2395 Density moi/L .1461 .1455 .1460 .2234 .2267 .2311 .3422 .3463 .3535 15.7923 .15.8194 15.8427 16.5545 16.5751 16.5755	.08364 .06637 .05109 Power W/m .02789 .06957 .05358 .03970 .08761 .06955 .03967 .71227 .60752 .51087 .82604 .71237 .82604	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01496 .01489 .01481 .12104 .12156 .12180 .13584 .13610	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .003 .005 .007 .001 .001 .002	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01465 .01462 .01499 .01462 .01499 .01498 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13646 .13639	1.71 1.67 1.89 Conductivity deviation from correlation percent 54190507492604189990897516210920262967
83027 83026 83025 Run Pt. 83044 83042 83041 83040 83037 83036 83037 83036 83037 83037 83037 83037 83037 83037 79076 79077 79079	.406 .409 .411 Pressure MP8 .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.876 235.696 234.239 233.532 235.696 234.698 234.688 235.623	.2339 .2365 .2395 DensIty mol/L .1461 .14455 .1455 .1460 .2234 .2264 .2287 .2311 .3422 .3463 .3535 15.7923 15.8194 .15.8427 .16.5361 15.5545 16.5751 16.5751 16.57551 16.57551	.08364 .06637 .05109 Power W/T .02789 .06957 .05358 .03970 .08767 .06355 .05356 .03977 .08761 .06752 .51087 .51087 .60752 .51087 .51085 .94638	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01489 .01481 .12104 .12156 .12180 .13584 .13610 .13645 .13631 .14932	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .001 .001 .001	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01462 .01459 .01462 .01499 .01498 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13639 .14919	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .092026296730
83027 83026 83025 Run Pt. 83044 83042 83041 83040 83037 83036 83037 83036 83037 83036 83037 83036 83037 83036 83037 83036 83037	.406 .409 .411 Pressure MP8 .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.098 234.029 233.532 235.696 234.802 234.802 234.688 235.623 235.623 235.623 235.837 235.837 235.8390 234.896 234.896 234.896 234.896 234.896 234.896 234.896 234.896 234.896 235.390 234.896 234.896 234.896 234.896 234.896	.2339 .2365 .2395 Density moi/L .1461 .14455 .1460 .2234 .2264 .2287 .2311 .3422 .3463 .3498 .3535 15.7923 15.8194 15.8427 16.5361 16.5545 16.5755 17.1375 17.1559	.08364 .06637 .05109 Power W/T .02789 .06787 .05358 .03970 .08767 .06955 .05357 .03970 .08761 .06955 .05356 .03967 .71227 .60752 .51087 .71227 .60752 .51087 .71237 .60772 .51087 .71237 .60772 .51087 .71237	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01481 .12104 .12156 .12180 .13584 .13610 .13645 .13631 .14932 .14983	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .003 .005 .007 .001 .001	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01444 .01439 .01465 .01462 .01459 .01462 .01499 .01498 .01499 .01497 .12095 .12154 .13573 .13605 .13646 .13639 .14919 .14917	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .09202629673021
83027 83026 83025 Run Pt. 83044 83042 83041 83040 83037 83036 83037 83036 83037 79075 79075 79077 79070 79069 79069	.406 .409 .411 Pressure MPa .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1	226.046 225.279 224.256 Tempersture K 232.979 235.295 234.388 233.661 235.876 235.098 234.239 233.532 235.601 235.683 235.620 234.688 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837	.2339 .2365 .2395 Density mol/L .1461 .1445 .1455 .1455 .1460 .2234 .2264 .2287 .2311 .3422 .3463 .3498 .3535 15.7923 15.8427 16.5361 16.5545 16.5751 16.5751 17.1375 17.1718	.08364 .06637 .05109 Power W/1 .02789 .06957 .03970 .08767 .06958 .03970 .08761 .06955 .05356 .03967 .71227 .60752 .51087 .71227 .60772 .51085 .71237 .60772 .94638 .82469 .71143	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01489 .01481 .12104 .12156 .12180 .13584 .13610 .13645 .13631 .14932 .14983 .14997	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .003 .005 .007 .001 .001 .002 .001 .002	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01443 .01449 .01459 .01465 .01462 .01499 .01498 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13646 .13639 .14919 .14977 .14997	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .0920262967302133
83027 83026 83025 Run Pt. 83044 83042 83041 83040 83037 83038 83037 83035 83034 83037 79075 79074 79077 79070 79069 79066 79066	.406 .409 .411 Pressure MP8 .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1	226.046 225.279 224.256 Tempersture K 232.979 235.295 234.388 233.661 235.876 235.876 235.696 234.239 233.532 235.696 234.098 234.698 235.623 235.623 235.623 235.623 235.636 234.698 235.837 235.837 235.896 234.395 236.015 235.493 235.493 235.493 235.493 235.493 235.493	.2339 .2365 .2395 .2395 DensIty moi/L .1461 .1455 .1460 .2234 .2267 .2311 .3422 .3463 .3498 .3535 15.7923 .3463 .3536 15.8427 .16.5545 16.5751 16.5755 17.1375 17.1559 17.1718	.08364 .06637 .05109 Power W/# .02789 .06957 .05358 .03970 .08761 .06955 .05357 .03977 .06752 .51087 .82604 .71237 .60772 .51085 .94638 .82469 .71143	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01489 .01481 .12104 .12156 .12180 .13584 .13610 .13645 .13631 .14932 .14983 .14997 .15037	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .001 .001 .002 .001 .002	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01459 .01462 .01499 .01498 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13646 .13639 .14919 .14977 .15042	1.71 1.67 1.89 Conductivity deviation from correlation percent 5419050749260418999089751621092026296730213328
83027 83026 83025 Run Pt. 83044 83042 83041 83040 83037 83036 83037 83036 83037 83037 83036 83037 83037 83036 79076 79071 79072 79072 79070 79068 79066 79065	.406 .409 .411 Pressure MP8 .270 .271 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.876 235.698 234.239 233.532 235.698 234.688 235.623 235.837 235.837 235.837 235.837	.2339 .2365 .2395 DensIty mol/L .1461 .1445 .1455 .1460 .2234 .2264 .2287 .2311 .3422 .3463 .3535 15.7923 15.8194 .15.8427 16.5361 16.5755 17.1375 17.1718 17.17188 17.1881	.08364 .06637 .05109 Power W/T .02789 .06957 .05358 .03970 .08767 .06355 .05356 .03967 .71227 .60752 .51087 .82604 .71237 .60752 .51087 .60752 .51087 .71247 .60752 .71247	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01489 .01481 .12104 .12156 .12180 .13584 .13610 .13645 .13631 .14932 .14983 .14997 .15037 .16310	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .001 .001 .001 .002 .001 .001	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01462 .01459 .01462 .01499 .01498 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13639 .14919 .14977 .14997 .15042 .16302	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .09202629673021332800
83027 83026 83025 Run Pt. 83044 83042 83041 83040 83038 83037 83036 83037 83036 83037 83036 83037 83036 83037 83036 83037 83036 79076 79072 79071 79072 79071 79069 79068 79065 79064	.406 .409 .411 Pressure MPa .270 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1.736 1.736 1.736 1.736 1.736 1.736 2.749 29.749 29.749 29.749 29.745 29	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.876 235.696 234.623 235.696 234.802 234.688 235.623 235.623 235.623 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837	.2339 .2365 .2395 DensIty mol/L .1461 .14455 .1460 .2234 .2264 .2287 .2311 .3422 .3463 .3535 15.7923 15.8194 15.8427 16.5751 16.5751 16.5751 17.1718 17.1881 17.1881 17.6800 17.6950	.08364 .06637 .05109 Power W/T .02789 .069358 .03970 .08767 .06955 .05357 .03970 .08761 .06955 .05356 .03967 .71227 .60752 .51087 .71227 .60752 .51087 .71247 .60772 .51087 .71247 .60772 .7143 .60694 .7143 .7143 .7143 .7143 .7143	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01481 .12104 .12156 .12180 .13584 .13610 .13645 .13631 .14932 .14983 .14997 .15037 .16310 .16314	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .001 .001 .001 .001 .001	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01462 .01459 .01462 .01499 .01498 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13646 .13639 .14919 .14917 .14997 .15042 .16302 .16311	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .0920262967302133280018
83027 83026 83025 Run Pt. 83044 83042 83041 83042 83041 83033 83037 83036 83037 83037 83037 79075 79074 79075 79074 79070 79066 79066 79066 79066 79066	.406 .409 .411 Pressure MPa .270 .271 .271 .402 .415 .417 .602 .606 .609 .613 1.736	226.046 225.279 224.256 Tempersture K 232.979 235.295 234.388 233.661 235.876 235.098 234.239 233.532 235.600 234.800 234.800 234.688 235.837	.2339 .2365 .2395 .2395 .2395 .2396 .1461 .1445 .1455 .1460 .2234 .2267 .2311 .3422 .3463 .3535 .557923 .15.8194 .16.5751 .16.5755 .17.1375 .17.1559 .17.1718 .17.1680 .17.6800 .17.6950 .17.7077	.08364 .06637 .05109 Power W/T .02789 .06957 .03970 .08767 .06958 .03970 .08761 .06955 .05356 .03967 .71227 .60752 .51087 .71227 .60772 .51085 .71247	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01489 .01481 .12106 .13584 .12180 .13584 .13610 .13645 .13631 .14932 .14983 .14997 .15037 .16310 .16314	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .001 .001 .002 .001 .002 .001 .001	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01462 .01459 .01462 .01499 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13646 .13639 .14919 .14977 .15042 .16301 .16311 .16346	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .092026296730213328001817
83027 83026 83025 Run Pt. 83043 83042 83041 83042 83041 83037 83033 83037 83033 83037 79075 79074 79077 79070 79066 79066 79066 79066 79062	.406 .409 .411 Pressure MP8 .270 .271 .271 .409 .412 .415 .417 .602 .609 .613 1.736 1.736 1.736 1.736 14.814 14.808 14.807 14.795 29.749 29.748 29.749 29.742 46.685 46.685 46.680	226.046 225.279 224.256 Tempersture K 232.979 235.295 234.388 233.661 235.876 235.876 234.098 234.239 233.532 235.696 234.098 234.698 235.623 235.623 235.623 235.636 234.698 235.837 235.839 234.598 235.896 234.395 236.015 235.493 235.539	.2339 .2365 .2395 .2395 .2395 .2395 .1461 .1461 .1455 .1460 .2234 .2267 .2311 .3422 .3463 .3498 .3535 .15.7923 .15.8427 .16.5361 .15.5545 .16.5755 .17.1559 .17.1718 .17.1881 .17.1680 .17.6950 .17.7777 .77157	.08364 .06637 .05109 Power W/# .02789 .06957 .05358 .03970 .08767 .06958 .05357 .03970 .08761 .06955 .05356 .03967 .71227 .60752 .51087 .82604 .71237 .71237 .71237 .71237 .71237 .71237 .71247 .71237	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01489 .01481 .12104 .12156 .12180 .13584 .13610 .13645 .13631 .14932 .14983 .14983 .14997 .15037 .16310 .16314 .16334	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .001 .001 .001 .001 .001 .001 .001	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01462 .01459 .01462 .01499 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13646 .13639 .14919 .14977 .14997 .15042 .16302 .16311 .16346 .16339	1.71 1.67 1.89 Conductivity deviation from correlation percent 5419050749260418999089751621092026296730213321332800181734
83027 83026 83025 Run Pt. 83044 83042 83041 83040 83037 83036 83037 83036 83037 83037 83037 83037 79076 79077 79079 79079 79068 79066 79066 79066 79066 79061	.406 .409 .411 Pressure MP8 .270 .271 .271 .409 .412 .415 .417 .602 .609 .613 1.736	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.876 235.698 234.239 233.532 235.698 234.688 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837	.2339 .2365 .2395 .2395 .2395 .1461 .1465 .1465 .1455 .1460 .2234 .2264 .2287 .2311 .3422 .3463 .3535 15.7923 15.8194 .15.8427 16.5361 16.5555 17.1718 17.1718 17.1718 17.1881 17.1881 17.1881 17.1875 17.1717 17.1717 17.1717 17.1717 17.1717 17.1717 18.1935	.08364 .06637 .05109 Power W/T .02789 .06957 .05358 .03970 .08767 .06355 .05356 .03967 .71227 .60752 .51087 .82604 .71237 .60752 .51087 .82604 .71143 .60694 .94607 .82458 .71143	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01489 .01481 .12104 .12156 .12180 .13584 .13610 .13645 .13631 .14932 .14983 .14997 .15037 .16310 .16314 .16334 .17702	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .001 .001 .001 .001 .001 .001 .001	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01462 .01459 .01462 .01499 .01498 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13639 .14919 .14977 .14997 .15042 .16302 .16311 .16346 .16339 .17693	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .09202629673021332800181734 .14
83027 83026 83025 Run Pt. 83044 830442 830441 830440 83038 83037 83036 83037 83036 83037 83036 79076 79077 79077 79077 79077 79077 79069 79068 79066 79066 79066 79066 79066 79060	.406 .409 .411 Pressure MPa .270 .271 .409 .412 .415 .417 .602 .606 .609 .613 1.736 1.746 1.749 1.749 1.749 1.740	226.046 225.279 224.256 Temperature K 232.979 234.388 233.661 235.876 235.876 235.876 235.696 234.239 233.532 235.696 234.802 234.802 234.802 234.803 235.837 235.837 235.390 234.896 234.896 234.395 235.837 235.390 234.817 235.493 235.493 235.493 235.493 235.493 235.493 235.493 235.493 235.493 235.493 235.493 235.493 235.493	.2339 .2365 .2395 .2395 .2395 .1461 .1445 .1455 .1460 .2234 .2264 .2287 .2311 .3422 .3463 .3498 .3535 15.7923 15.8194 15.8427 16.5545 16.5751 17.1718 17.1881 17.1881 17.6800 17.6950 17.7777 17.7157 18.1935 18.2060	.08364 .06637 .05109 Power W/T .02789 .06357 .05358 .03970 .08767 .06355 .03970 .08761 .06955 .03970 .08761 .06955 .03967 .71227 .60752 .51087 .82604 .71237 .60772 .51087 .82604 .71143 .606763 .82458 .71143 .606469 .71143	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01481 .12104 .12156 .12180 .13584 .13610 .13645 .13631 .14932 .14983 .14997 .15037 .16310 .16314 .16344 .17702 .17730	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .001 .001 .001 .001 .001 .001 .001	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01462 .01459 .01462 .01499 .01498 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13646 .13573 .13605 .13646 .13639 .14919 .14917 .14997 .15042 .16311 .16346 .16339 .17693 .17693 .17726	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .09202629673021332800181734 .14 .13
83027 83026 83025 Run Pt. 83044 83042 83041 83040 83037 83036 83037 83036 83037 83037 83037 83037 79076 79077 79079 79079 79068 79066 79066 79066 79066 79061	.406 .409 .411 Pressure MP8 .270 .271 .271 .409 .412 .415 .417 .602 .609 .613 1.736	226.046 225.279 224.256 Temperature K 232.979 235.295 234.388 233.661 235.876 235.876 235.698 234.239 233.532 235.698 234.688 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.623 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837 235.837	.2339 .2365 .2395 .2395 .2395 .1461 .1465 .1465 .1455 .1460 .2234 .2264 .2287 .2311 .3422 .3463 .3535 15.7923 15.8194 .15.8427 16.5361 16.5555 17.1718 17.1718 17.1718 17.1881 17.1881 17.1881 17.1875 17.1717 17.1717 17.1717 17.1717 17.1717 17.1717 18.1935	.08364 .06637 .05109 Power W/T .02789 .06957 .05358 .03970 .08767 .06355 .05356 .03967 .71227 .60752 .51087 .82604 .71237 .60752 .51087 .82604 .71143 .60694 .94607 .82458 .71143	.01388 .01380 .01373 Experimental Thermal Conductivity W/m.K .01411 .01446 .01433 .01425 .01474 .01463 .01451 .01466 .01506 .01496 .01489 .01481 .12104 .12156 .12180 .13584 .13610 .13645 .13631 .14932 .14983 .14997 .15037 .16310 .16314 .16334 .17702	.003 .004 .005 STAT .012 .003 .005 .007 .003 .005 .007 .001 .001 .001 .001 .001 .001 .001	.01377 .01377 .01381 Adjusted Thermel at a nominal Temperature of 235 K W/m.K .01433 .01443 .01440 .01439 .01465 .01462 .01459 .01462 .01499 .01498 .01499 .01497 .12095 .12154 .12184 .13573 .13605 .13639 .14919 .14977 .14997 .15042 .16302 .16311 .16346 .16339 .17693	1.71 1.67 1.89 Conductivity deviation from correlation percent 54 .190507 .49 .26 .04 .18 .99 .90 .89 .75 .16 .21 .09202629673021332800181734 .14

					Experimental Thermal		Adjusted Thermal	Conductivity
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 245 K	
Kull I Cu	MPa	K	mol/L	W/m	W/m.K	•	W/m.K	percent
83012	. 294	246.118	.1499	.09166	.01548	.003	.01536 .01534	94 -1.07
83011	.294	245.283 244.378	.1505 .1511	.07274 .05604	.01537 .01525	.005	.01534	-1.21
83010	295	243.664	.1520	.04152	.01525	.008	.01540	71
83008	.481	245.875	. 2526	.09162	.01578	.003	.01568	28
83007	.481	245.065	.2536	.07272	.01553	.004	.01552	-1.33
83006	.481	244.183	.2548	.05602	.01558	.005	.01567	39
83005	.481	243.466	. 2557	.04151	.01541	.008	.01558	-1.00
83004	•633	245.735	.3420	.09175	.01590	.004	.01582	66
83003	.636	244.967	.3449	.07281	.01582	.004 .005	.01582 .01585	67 56
83002 83001	.641 .645	244.163 243.571	.3495 .3529	.05609	.01576 .01569	.009	.01585	63
0 300 2		2.00						
					Experimental		Adjusted Thermal	
	_				Thermal	CTIT	at a nominal	deviation
Run Pt.	Pressure MPa	Temperature K	Density moi/L	Power W/m	Conductivity W/m.K	STAT	Temperature of 255 K W/m.K	percent
	or •	Α.	#017E	W / III	M / KI W IS		#7 # # N	percent
83024	.309	253.199	.1529	.03051	.01610	.014	.01630	-1.96
83023	.309	255.368	.1514	.07604	.01630	.005	.01626	-2.21
83022	.309	254.535	.1520	.05859	.01629	.006	.01634	-1.69
83021	.309	253.732	.1525	.04342	.01614	.008	.01628	-2.07
83020	.708	255.761 254.898	•3667 •3684	.09572	.01701 .01693	.003	.01692 .01694	98 90
83019 83018	•708 •708	254.158	.3698	.07602	.01684	.005	.01693	96
83017	.708	253.565	.3710	.04340	.01672	.009	.01688	-1.29
83016	1.092	253.366	.6071	.04338	.01750	.008	.01768	.37
83015	1.084	255.373	.6003	.09570	.01769	.003	.01765	• 26
83014	1.087	254.680	.6050	.07596	.01765	.004	.01769	• 4 1
83013	1.090	253.937	•6101	.05851	.01757	.005	•01769	• 37
79101	2.677	254.449	14.7729	•77306	•10645	.001	.10654	• 8 5
79100 79099	2.669 2.661	253.940 253.325	14.8043	.65908 .55441	.10696 .10729	.001	•10713 •10756	• 92 • 73
79098	2.651	252.902	14.8678	45869	.10731	.002	.10764	.42
79097	12.529	254.110	15.6003	.77181	.11972	.001	.11985	17
79096	12.525	253.594	15.6242	.65828	.12022	.001	.12043	06
79095	12.519	253.101	15.5469	.55377	.12081	.002	.12110	. 14
79094	12.521	252.573	15.6718	.45844	.12085	.002	.12121	14
79093	20.228	254.403	16.0343	89508	.12799	.001	.12808	23
79092 79091	20.224 20.226	253.858 253.388	16.0565 16.0759	.77210 .65844	.12823 .12861	.001	•12839 •12884	33 28
79090	20.222	252.994	16.0918	.55379	.12921	.002	•12950	02
79089	33.115	254.159	16.6240	.89381	.14045	.001	.14056	01
79088	33.115	253.660	16.6415	.77110	.14054	.001	.14072	17
79087	33.115	253.187	16.6581	•65770	.14081	.002	•14105	19
79086	33.120	253.031	16.6638	.60428	.14107	.001	.14133	08
79085	48.192	254.116	17.1549	95846	.15268	.001	.15278	• 20
79084 79083	48.194 48.194	253.881 253.385	17.1622 17.1776	.89373	.15305 .15326	.001	•15318 •15345	.35
79082	48.188	253.005	17.1891	.65775	.15335	.001	.15358	.20
79081	67.252		17.6909		.16612	.001	.16620	. 46
79080	67.252	253.703	17.7048	.89360	.16646	.001	.16659	. 48
79079	67.252	253.193	17.7188	.77097	.16670	.001	.16688	. 45
79078	67.252	252.879	17.7275	.65739	.16692	.001	•16713	.46
					Experimental		Adjusted Thermal	Conductivity
					Thermel		at a nominal	deviation
Run Pt.	Pressure	Tempereture	Density	Power	Conductivity	STAT	Temperature of 265 K	from correlation
	MPa	K	₹01/L	W/m	¥/m⋅K		W/m.K	percent
8 20 6 5	.249	265.102	.1162	.07917	. 01 721	.004	01720	-2 20
82064	.249	264.337	.1166	.05099	.01731 .01722	.004	.01730 .01730	-2.20 -2.22
82063	249	263.542	.1169	.04521	.01710	.005	.01737	-2.40
82062	. 249	262.977	.1172		.01706	.012	.01729	-2.25
82061	.482	265.752	.2306	.09969	.01757	.006	.01748	-2.55
82060	/ 0.0	264.908	.2315	.07915	.01759	.004	.01760	-1.88
	•482		.2323	.06098	.01746 .01744	.006	.01756	-2.10
82059	. 492	264.097			- D I / A A	- 11/14	.01762	
82058	• 492 • 482	263.393	.2331					-1.76
82058 82057	.482 .482 .853	263.393 265.436	.2331 .4294	.09962	.01819	.003	.01814	-1.24
82058	.482 .482 .853 .853	263.393 265.436 264.620	.2331 .4294 .4312	.09962 .07912	.01819 .01806	.003	.01814 .01810	-1.24 -1.46
82058 82057 82056 82055 82054	.482 .482 .853 .853 .853	263.393 265.436 264.620 263.885 263.258	.2331 .4294 .4312 .4328 .4343	.09962	.01819	.003	.01814	-1.24
82058 82057 82056 82055 82054 82053	.482 .482 .853 .853 .853 .853	263.393 265.436 264.620 263.885 263.258 265.203	.2331 .4294 .4312 .4328 .4343	.09962 .07912 .06095 .04519	.01819 .01806 .01796 .01788 .01864	.003 .004 .006 .008	.01814 .01810 .01809 .01808 .01862	-1.24 -1.46 -1.57 -1.63 74
82058 82057 82056 82055 82054 82053 82052	.482 .482 .853 .853 .853 .853 1.153	263.393 265.436 264.620 263.885 263.258 265.203 264.354	.2331 .4294 .4312 .4328 .4343 .6079	.09962 .07912 .06095 .04519 .09964	.01819 .01806 .01796 .01788 .01864	.003 .004 .006 .008 .005	.01814 .01810 .01809 .01808 .01862 .01865	-1.24 -1.46 -1.57 -1.63 74 59
82058 82057 82056 82055 82054 82053 82052 82051	.492 .482 .853 .853 .853 .853 1.153 1.155	263.393 265.436 264.620 263.885 263.258 265.203 264.354 263.693	.2331 .4294 .4312 .4328 .4343 .6079 .6123	.09962 .07912 .06095 .04519 .09964 .07915	.01 819 .01 806 .01796 .01788 .01 864 .01 858 .01 852	.003 .004 .006 .008 .005 .004	.01814 .01810 .01809 .01808 .01862 .01865	-1.24 -1.46 -1.57 -1.63 74 59
82058 82057 82056 82055 82054 82054 82052 82051 82050	.492 .482 .853 .853 .853 .853 1.153 1.155 1.155	263.393 265.436 264.620 263.885 263.258 265.203 264.354 263.693 263.140	.2331 .4294 .4312 .4328 .4343 .6079 .6123 .6169	.09962 .07912 .06095 .04519 .09964 .07915 .06097	.01819 .01806 .01796 .01788 .01864 .01858 .01852 .01846	.003 .004 .006 .008 .005 .004 .006	.01814 .01810 .01809 .01808 .01862 .01865 .01867	-1.24 -1.46 -1.57 -1.63 74 59 56
82058 82057 82056 82055 82054 82053 82052 82051 82050 82049	.492 .482 .853 .853 .853 .853 1.153 1.155 1.158 1.161	263.393 265.436 264.620 263.885 263.258 265.203 264.354 263.693 263.140 264.825	.2331 .4294 .4312 .4328 .4343 .6079 .6123 .6169 .6205	.09962 .07912 .06095 .04519 .09964 .07915 .06097 .04519	.01 819 .01 806 .01796 .01788 .01 864 .01 858 .01 852 .01846	.003 .004 .006 .008 .005 .004 .006 .010	.01814 .01810 .01809 .01808 .01862 .01865 .01867 .01867	-1.24 -1.46 -1.57 -1.63 74 59 56 58 1.65
82058 82057 82056 82055 82054 82054 82052 82051 82050	.492 .482 .853 .853 .853 .853 1.153 1.155 1.155	263.393 265.436 264.620 263.885 263.258 265.203 264.354 263.693 263.140	.2331 .4294 .4312 .4328 .4343 .6079 .6123 .6169	.09962 .07912 .06095 .04519 .09964 .07915 .06097	.01 819 .01 806 .01796 .01788 .01 864 .01 858 .01 852 .01846 .01961	.003 .004 .006 .008 .005 .004 .006	.01814 .01810 .01809 .01808 .01862 .01865 .01867	-1.24 -1.46 -1.57 -1.63 74 59 56

					Experimental		Adjusted Thermal	Conductivity
Run Pt.	Pressure	Temperature	Conclèu	Power	Thermal Conductivity	CTAT	at a nominal	deviation
Kun Pt.	MPa	K	Oensity moi/L	W/m	W/m.K	STAT	Temperature of 275 K W/m.K	from correlation percent
0.20.00	220	275 150	14.00	00240	03.04.2	000	22.04.0	
82089 82088	.330 .330	275.153 274.297	.1489 .1494	.08240 .06351	.01842 .01838	.003 .006	•01840 •01847	-3·11 -2·72
82087	•330	273.611	.1498	.04708	.01828	.008	•01846	-2.79
82086	.330	273.020	.1502	.03310	.01801	.014	.01827	-3.89
R2085	-698	275.652	•3276	.10373	•01901	•003	•01892	-2.40
82084	•698	274.744	.3289	•08241	.01887	.004	.01890	-2.52
82083 82082	•698 •698	274.038 273.395	.3300 .3310	.06348 .04706	.01879 .01870	•005 •009	•01892 •01891	-2.46 -2.50
P2081	1.037	275.327	.5085	-10372	.01952	.003	•01948	-1.61
82080	1.037	274.544	.5105	.08239	•01940	.004	•01946	-1.71
82079	1.037	273.897	.5123	.06347	.01923	.005	•01938	-2.16
82078	1.037	273.274	•5139	.04707	•01916	.008	•01939	-2.10
82077	1.299	275.168	• 5601	.10370	.01989	•002	.01987	-1.37
82 07 6 8 2075	1.302	274.374 273.772	.6651 .6736	.08236 .06347	.01984 .01976	•004 •005	•01993 •01993	-1.12 -1.20
82074	1.316	273.259	.6782	.04705	.01971	.010	•01775	-1.14
82073	1.609	275.682	.8548	.12757	.02065	•002	•02055	21
82072	1.513	274.976	.8613	.10375	.02059	.003	•02059	08
82071	1.618	274.238	.8590	.08240	•02049	.004	•02060	13
82070	1.619	273.649	.8735	.05349	.02044	•006	.02064	01
82069	2.062 2.064	275.238	1.1950	.12754	.02212	•003	•02208	3.05
8 20 68 82067	2.066	274.610 273.904	1.2038	.10376 .08240	.02217 .02211	.003 .004	•02223 •02228	3.61 3.73
82066	2.069	273.369	1.2219	.06347	•02206	•306	.02232	3.79
79026	4.962	276.523	13.5345	.71938	.09236	.001	.09207	1.38
79025	4.960	275.924	13.5805	.60512	.09274	.001	•09256	1.25
79024	4.959	275.201	13.6355	•50102	• 09356	.001	•09352	1.47
79023	4.959	274.611	13.6802	.40657	.09396	•002	•09403	1.36
79022 79021	4.959 11.792	274.197 275.148	13.7111	.32204 .71955	.09437 .10374	•002 •001	•09452 •10353	1.42
79020	11.792	275.546	14.4620	.60527	•10407	.001	•10333	10
79019	11.793	274.955	14.4941	.50101	.10455	.001	.10456	01
79018	11.792	274.440	14.5218	.40662	•10503	•002	•10513	.13
79017	19.380	275.840	15.0666	.71948	•11352	.001	•11338	38
79016	19.382	275.289	15.0913	-60514	.11381	•001	•11376	40
79015 79014	19.381 19.381	274.798 274.335	15.1131 15.1336	.50085 .40639	•11423 •11455	.001 .002	•11426	28 24
79014	32.550	274.466	15.8752	.50075	•12802	.002	•11466 •12810	11
79012	32.562	276.141	15.8144	.84290	.12681	.001	•12664	37
79011	32.561	275.511	15.8373	.71910	.12724	.001	.12716	29
79010	32.558	274.956	15.8573	.50468	.12762	.001	•12763	22
79009	48.703	276.942		1.11881	•14024	•001	•13998	•08
79008 79007	48.703	276.326	16.4837	.97549	•14060 14085	.001	•14042 14075	•11
79006	48.701 48.699	275.745 275.265	16.5017	.84178 .71801	.14085 .14112	.001 .001	•14075 •14108	•10
79005	65.593	277.211	17.0107		.15281	.001	•15256	•68
79004	65.593	276.677		1.11946	•15320	.001	.15301	•76
79003	65.619	276.110	17.0419	.97570	.15345	.001	•15332	•73
79002	65.618	275.551	17.0573	.84216	•15375	.001	.15369	•74
79001	65.622	275.160	17.0682	.71829	.15423	.001	•15421	• 92
					Experimental		Adjusted Thermal	Conductivity
					Thermal		at a nominal	deviation
Run Pt.	Pressure	Temperature	0ensity	Power	Conductivity	STAT	Temperature of 285 K	from correlation
	MPa	К	mol/L	W/m	W/m.K		W/m.K	percent
82021	.247	286.164	.1060	.10764	•01960	•002	•01945	-3.71
82020	.247	285.222	•1064	.08552	•01953	.002	.01949	-3.44
82019	.247	284.404	.1070	.06589	.01937	.005	.01945	-3.73
82018	. 248	283.648	.1075	.04884	.01933	.006	.01951	-3.42
82017	.821	283.344	.3772	.04886	•01991	.008	.02013	-3.45
82016	.821	285.524	•3735	.10768	.02019	•003	.02012	-3.48
82015	.821	284.734	•3749	.08552	.02003	.003	•02007	-3.77
8 201 4 82013	.821 1.449	284.032 283.715	•3763 •7163	.06589 .06590	.02010 .02081	•005 •005	•02023 •02099	-2.94 -3.31
82012	1.449	285.881	.7077	.13239	.02116	•002	.02103	-2.99
82011	1.450	285.110	.7112	.10767	.02112	.002	.02110	-2.70
82010	1.450	284.391	.7142	.08552	.02103	.003	.02112	-2.68
82009	2.190	286.150	1.1884	.15950	.02301	•002	.02283	67
82008	2.191	285.324	1.1964	•13229	•02298	•002	.02293	32
82007	2.191 2.192	284.054	1.2088	.08545	•0229 2 •022 74	.002 .007	•02307 •02305	•14 -•06
820 0 6 82005	2.192	283.033 284.680	1.2194	.04883 .10762	.02288	.007	•02293	41
82004	2.779	285.413	1.7119	.15957	.02565	•002	.02557	3.80
82003	2.779	284.073	1.7403	.10766	.02585	.003	•02603	5.11
82002	2.779	286.061	1.6992	.18939	.02562	•002	.02542	3.39
82001	2.779	284.671	1.7274	.13232	.02573	•003	.02579	4.42

					Experimental		Adjusted Thermal	
Run Pt.	Pressure	Temperature	Density	Power	Thermal Conductivity	STAT	at a nominal Temperature of 295 K	deviation from correlation
Tull Ft	MPa	K	TOI/L	W/m	W/m.K	• • • • • • • • • • • • • • • • • • • •	W/m.K	percent
82045	. 299	296.023	.1200	.11166	.0208C	.003	•02057	-4.10
82044	.289	295.044	.1205	.08871	•02068	.005	.02067	-4.06
R2043	.289	294.331	.1208	.06833	.02045	.007	.02054	-4.76
82042	.289	293.565	.1211	.05070	.02046	.010	.02065 .02127	-4.20 -4.18
82041 82040	.855 .855	296.326 295.392	•3729 •3743	.13725	.02145 .02131	•003	.02126	-4.27
92039	.855	294.709	.3754	.08866	.02132	.004	.02136	-3.79
82038	.855	293.982	.3766	.06833	.02120	.007	.02134	-3.92
82037	1.378	295.892	.5337	.13730	.02208	•002	.02196	-4.15
82034 82035	1.384	295.161 294.429	.6392 .6415	.08869	.02199 .02194	.003	.02197 .02202	-4.17 -3.96
82034	1.388	293.742	•6458	.06837	.02168	.005	.02185	-4.80
92033	2.118	293.441	1.0786	.06835	.02322	.006	.02345	-3.14
82032	2.121	295.410	1.0666	.13724	.02341	.002	.02335	-3.44
82031	2.123	294.658	1.0730	.11166	.02335	•003	.02340	-3.30
82030 82029	2.125 2.957	294.060 295.407	1.0791	.08867 .16546	.02328 .02621	•005 •002	.02342 .02614	-3.29 -1.08
82028	2.971	294.702	1.7235	.13724	•02632	.002	.02637	42
82027	2.973	294.072	1.7366	.11162	.02621	.004	.02637	61
82026	2.975	293.616	1.7478	.08864	.02640	.006	.02665	. 25
82025	3.508	293.665	2.3589	.11153	.03067	.005	.03097	4.99
82024 82023	3.508 3.508	294.579 294.115	2.3308	.16532 .13714	.03027 .03040	.003 .004	.03036 .03060	3.73 4.15
82022	3.508	295.195	2.3072	.19617	.03002	.002	.02998	2.89
83068	•311	296.227	.1293	.11175	.02083	.003	.02067	-4.19
83067	.311	295.398	.1297	.08875	.02063	.006	.02058	-4.66
83066	.311	294.659	.1303	.05841	.02060	.010	.02064	-4.33 -4.29
83065 83064	.311 .840	293.906 293.702	•1307 •3698	.05073	.02051 .02116	.011 .008	.02065 .02133	-3.85
83063	.840	295.810	•3667	.11172	.02139	.003	.02128	-4.06
83062	.840	295.059	.3678	.08875	.02127	.005	.02126	-4.18
83061	.840	294.373	.3689	.06840	.02115	.007	.02123	-4.32
83060	1.364	293.470	-6337	.05071	.02174	.009	.02195	-4.18
83059 83058	1.364 1.364	295.500 294.790	•6275 •6297	.08877	.02205 .02185	.003 .005	.02198 .02188	-3.96 -4.47
83057	1.364	294.083	.6319	.06841	.02189	•006	.02202	-3.85
83056	2.144	293.755	1.0935	.06840	.02326	.006	.02345	-3.37
83055	2.145	295.763	1.0795	.13732	.02347	.003	.02336	-3.58
83054	2.145	294.979	1.0851	•11176	.02343	•003	.02343	-3.32
83053 83052	2.145 2.923	294.412 293.954	1.0892	.08877	.02346 .02594	.006 .005	•02355 •02612	-2.87 91
83051	2.923	295.783	1.6618	.16559	.02593	.002	.02580	-1.72
83050	2.923	295.168	1.6722	.13732	.02599	.003	.02596	-1.23
93049	2.924	294.546	1.5830	.11177	.02579	•005	.02587	-1.75
83048 83047	3.389 3.389	295.866 295.244	2.1327 2.1518	.19658	.02872 .02882	.002 .002	.02855 .02877	1.01
83046	3.399	294.681	2.1696	.13739	.02883	.003	.02890	1.59
83045	3.390	294.158	2.1874	.11170	.02901	.004	.02918	2.27
79057	5.509	295.599	11.8597	.64928	.07877	.001	.07862	2.60
79056	5.506	295.240	11.9018	•59221	.07918	.001	.07912	2.76
79055 7 9054	5.503 5.501	294.776 294.211	11.9560 12.0213	.53771 .43623	.07939 .07998	.001	.07945 .08017	2.55 2.71
79053	5.500	293.548	12.0963	.34553	.08040	.001	.08075	2.55
79052	11.965	296.074	13.2849	.70935	.09160	.001	.09137	28
79051	11.967	295.642	13.3122	.64959	.09177	.001	.09163	36
79050 79049	11.969 11.968	294.974 294.359	13.3544	.53758	.09202 .09221	.001	.09203	51
79049	11.970	293.856	13.4239	.43631 .34567	.09279	.001 .001	.09234 .09303	68 37
79047	18.846	295.312	14.0700	.77164	.10134	.001	.10108	96
79045	18.846	295.385	14.1150	•64960	.10167	.001	•10159	-1.08
79045 79044	18.948	294.831	14.1420	•53763	•10204	.001	•10207	98
79043	18.848 18.848	294.201 293.719	14.1725	.43637 .34570	.10246 .10245	.001	•10262 •10270	88 -1.12
79042	25.835	295.782	14.6650	.77211	.10975	.001	.10960	-1.16
79041	25.885	295.166	14.6905	.64959	•11008	.001	.11005	-1.11
79040	25.882	294.560	14.7154	.53763	.11021	.001	.11029	-1.24
79039 79038	25.885 35.690	293.962	14.7404	•43660 00500	•11078	•002	•11097	97
79038	35.692	296.260 295.539	15.2488 15.2747	.90500	•11973 •11970	.001	•11951 •11961	67 96
79036	35.689	294.984	15.2944		.12055	.001	.12055	44
79035	35.690	294.374	15.3162	.53783	.12017	.001	.12028	98
79034	49.708	296.694	15.8916		•13148	0.000	.13122	32
79033 79032	49.709 49.709	295.818 295.280	15.9187 15.9353	.90523 .77225	.13187 .13213	.001	.13174	29
79031	49.704	294.618	15.9556	.65007	.13213	.001	.13209 .13230	26 39
79030	66.761	296.067	16.5290	1.04916	.14458	.001	.14444	.41
79029	65.753	295.429	16.5465	.90547	.14492	.001	.14486	. 46
79028 79027	66•770 66•775	294.891 294.396	16.5614 16.5750	.77260 .65002	.14512	.001	•14513 14541	. 44
1,021	00.775	2776370	10.7770	.07002	•14553	.001	.14561	.58

Run Pt.	Pressure HPa	Temperature K	Oensity mol/L	Power W/m	Experimental Thermal Conductivity	STAT	Adjusted Thermal at a nominal Temperature of 305 K W/m.K	deviation from correlation
								percent
84041	• 241	302.965	_ • 0974	.05229	.02218	.012	.02239	-1.26
84040 84039	.241 .241	303.561 304.449	.0972 .0969	.07051	.02206 .02196	.005	.02220	-2.11
84038	.241	305.309	.2967	.11522	.02198	.004	•02201 •02218	-3.01 -2.20
84037	.639	302.718	.2667	.05234	.02232	•009	.02255	-2.43
84036	.639	303.335	.2660	.07058	.02250	.004	.02266	-1.92
84035	. 639	304.854	. 2645	.11516	.02256	.003	.02257	-2.30
84034	•639	304.006	. 26 53	.09141	.02252	.005	.02261	-2.14
84033	.959	305.696	.4057	.14194	.02307	.002	.02298	-2.06
84032 84031	.959 .959	302.745 303.313	.4107 .4097	.05236	.02250 .02266	.007 .005	.02271 .02281	-3.31 -2.86
84030	959	304.074	.4085	.09161	.02276	.003	.02284	-2.74
84029	959	304.938	.4070	.11521	.02286	.002	.02286	-2.59
84028	1.521	306.007	.6757	.17088	.02395	.002	.02380	-1.59
84027	1.521	303.238	.6847	.07048	.02346	.005	.02359	-2.57
84026	1.521	305.362	.5778	.14166	.02382	.002	•02380	-1.60
84025 84023	1.521	304.514 305.272	.6805 .8467	.11508	.02375 .02458	.003	•02378 •02437	-1.74 -1.18
84022	1.849	305.751	.8489	.14114	.02453	.002	.02443	. = • 98
84021	1.849	304.422	. 8549		.02426	.003	.02428	-1.64
84020	1.849	304.209	.8559	.09110	.02423	.004	.02427	-1.73
84019	1.849	303.597	.8587	.07045	.02375	•005	.02383	-3.61
84018	1.858	303.292 305.293	.8649 .8557	.07049	.02418	.005	.02429	-1.74
84017 84016	1.858	304.494	.8594		•02422 •02402	.002	.02422 .02404	-1.93 -2.73
84015	1.858	303.861	.8623	.09133	.02397	.003	.02403	-2.80
84014	2.501	306.756	1.2250	.20287	.02581	.001	.02547	-1.36
84013	2.501	304.906	1.2410	•14143	.02547	.001	.02547	-1.56
84012	2.501	304.332	1.2457	.11507	.02541	.002	.02541	-1.86
84011 84010	2.501 3.157	306.052 304.395	1.2316	.17100 .11553	.02556 .02762	.001	.02537 .02756	-1.81 03
84009	3.157	304.645	1.7200	.14152	.02764	.002	.02760	• 16
84008	3.157	305.885	1.7012	.20246	.02767	.001	.02750	.07
84007	3.157	305.553	1.7052	.17096	.02769	.002	.02765	• 53
84006	3.792	305.536	2.3036		.03126	.001	.03125	3.76
84005 84004	3.792 3.793	307.396 305.273	2.2495		.03122 .03110	.001	.03046 .03071	2.12
84003	3.793	304.935	2.3226	.17072	.03110	.002	.03108	2.93
84002	3.793	304.128	2.3487		.03146	.002	.03125	3.05
84001	3.793	303.535	2.3686	.09152	.03144	.004	.03117	2.47
					Experimental		Adjusted Thermal	Conductivity
					Thermal		at a nominal	deviation
Run Pt.	Pressure	Temperature			Conductivity	STAT	Temperature of 312 K	
	MPa	К	mol/L	W/m	W/m.K		W/m.K	percent
85165	.117							
85164	* 4 4 7	315.524	.0448	.11631	.02283	.003	.02240	-4.76
85163	•117	314.484	.0451	.09234	.02282	.004	.02252	-4.23
	•117 •117	314.484 313.667	.0451 .0452	.09234	.02282 .02269	.004	.02252 .02249	-4.23 -4.37
85162	•117 •117 •121	314.484 313.667 312.814	.0451 .0452 .0468	.09234 .07116 .05268	.02282 .02269 .02218	.004 .007	.02252 .02249 .02208	-4.23 -4.37 -6.31
85162 85161	•117 •117 •121 •637	314.484 313.667 312.814 314.792	.0451 .0452 .0468 .2542	.09234 .07116 .05268 .11629	.02282 .02269 .02218 .02394	.004 .007 .007	.02252 .02249 .02208 .02361	-4.23 -4.37 -6.31 -1.68
85162 85161 85160	.117 .117 .121 .637 .637	314.484 313.667 312.814 314.792 313.738	.0451 .0452 .0468 .2542 .2551	.09234 .07116 .05268 .11629 .09234	.02282 .02269 .02218 .02394 .02384	.004 .007 .007 .003	.02252 .02249 .02208 .02361 .02363	-4.23 -4.37 -6.31 -1.68 -1.58
85162 85161 85160 85159 85158	.117 .117 .121 .637 .637 .638	314.484 313.667 312.814 314.792 313.738 313.154 312.499	.0451 .0452 .0468 .2542 .2551 .2558	.09234 .07116 .05268 .11629 .09234 .07106	.02282 .02269 .02218 .02394 .02384 .02369	.004 .007 .007 .003 .005 .006	.02252 .02249 .02208 .02361 .02363 .02355	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95
85162 85161 85160 85159 85158 85157	.117 .117 .121 .637 .637 .638 .638	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460	.0451 .0452 .0468 .2542 .2551 .2558 .2566	.09234 .07116 .05268 .11629 .09234 .07106 .05262	.02282 .02269 .02218 .02394 .02384 .02369 .02361 .02441	.004 .007 .007 .003 .005 .006 .006	.02252 .02249 .02208 .02361 .02363 .02355 .02355	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59
85162 85161 85160 85159 85158 85157 85156	.117 .117 .121 .637 .638 .638 1.076	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728	.0451 .0452 .0468 .2542 .2551 .2558 .2566 .4438	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626	.02282 .02269 .02218 .02394 .02384 .02369 .02361 .02441	.004 .007 .007 .003 .005 .006 .006	.02252 .02249 .02208 .02361 .02363 .02355 .02355 .02412	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59
85162 85161 85160 85159 85158 85157 85156 85155	.117 .117 .121 .637 .637 .638 .638	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012	.0451 .0452 .0468 .2542 .2555 .2556 .2566 .4438 .4453	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230	.02282 .02269 .02218 .02394 .02384 .02369 .02361 .02441 .02424 .02405	.004 .007 .007 .003 .005 .006 .006 .003 .003	. 02252 . 02249 . 02208 . 02361 . 02363 . 02355 . 02355 . 02412 . 02404	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59 -1.59
85162 85161 85160 85159 85158 85157 85156 85155 85155	.117 .117 .121 .637 .638 .638 .638 1.076 1.077	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439	.0451 .0452 .0468 .2551 .2558 .2566 .4438 .4453	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626	.02282 .02269 .02218 .02394 .02384 .02369 .02361 .02441 .02424 .02405	.004 .007 .007 .003 .005 .006 .006 .003 .003 .005 .010	. 02252 .02249 .02208 .02361 .02355 .02355 .02412 .02404	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.97 -2.43 -2.11
85162 85161 85160 85159 85158 85157 85156 85155	.117 .117 .121 .637 .637 .638 .638	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012	.0451 .0452 .0468 .2542 .2555 .2556 .2566 .4438 .4453	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230	.02282 .02269 .02218 .02394 .02384 .02369 .02361 .02441 .02424 .02405	.004 .007 .007 .003 .005 .006 .006 .003 .003	. 02252 . 02249 . 02208 . 02361 . 02363 . 02355 . 02355 . 02412 . 02404	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59 -1.59
85162 85161 85159 85159 85157 85156 85155 85155 85155 85153 85153	.117 .117 .121 .637 .638 .638 1.076 1.077 1.077 1.077 1.919	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.895 313.905	.0451 .0452 .0468 .2542 .2551 .2558 .2566 .4438 .4453 .4466 .4478 .8503 .8555	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .07111 .05266 .14291 .11610	.02282 .02269 .02218 .02394 .02384 .02369 .02361 .02441 .02424 .02405 .02405 .02555	.004 .007 .007 .005 .006 .006 .003 .003 .005 .010 .002 .002	. 02252 . 02249 . 02261 . 02361 . 02355 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59 -1.59 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27
85162 85161 85159 85158 85157 85156 85155 85155 85153 85153 85153	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.077 1.919 1.919	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.805 313.310 312.571	.0451 .0452 .0468 .2554 .2551 .2558 .2566 .4438 .4453 .4466 .4478 .8468 .8555 .8589	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .07111 .05266 .14291 .11610 .09216 .07098	.02282 .02269 .02218 .02394 .02384 .02369 .02361 .02441 .02424 .02405 .02406 .02553 .02525 .02526	.004 .007 .007 .003 .005 .006 .003 .005 .010 .002 .002	. 02252 . 02249 . 02208 . 02361 . 02363 . 02355 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59 -1.59 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58
85162 85161 85159 85159 85157 85155 85157 85155 85155 85153 85152 85151 85149	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.077 1.919 1.919 1.923 1.924 2.577	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.805 313.965 313.905 313.310 312.571 314.525	.0451 .0452 .0458 .2554 .2551 .2556 .4438 .4453 .4466 .4478 .8468 .8503 .8555 .8589 1.2135	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .09216 .07098 .14298	. 02282 . 02269 . 02269 . 02394 . 02384 . 02361 . 02441 . 02424 . 02405 . 02553 . 02525 . 02525	.004 .007 .007 .005 .006 .006 .003 .005 .010 .002 .002	. 02252 . 02249 . 02208 . 02361 . 02363 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53
85162 85161 85160 85159 85157 85155 85155 85155 85155 85151 85150 85150 85149 85148	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.077 1.919 1.919 1.923 1.924 2.577 2.573	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.805 313.905 313.310 312.571 314.525 313.751	.0451 .0452 .0468 .25542 .2551 .2558 .2556 .4438 .4453 .4466 .4478 .8468 .8503 .8555 .8589 1,2135	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .07098 .14298 .11619	.02282 .02269 .02269 .02394 .02384 .02369 .02361 .02441 .02424 .02405 .02405 .02553 .02555 .02566	.004 .007 .007 .005 .006 .006 .003 .005 .005 .005 .005 .005 .005 .005	. 02252 . 02249 . 02268 . 02361 . 02363 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481 . 02643	-4.23 -4.37 -6.31 -1.68 -1.58 -1.95 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62
85162 85161 85159 85159 85156 85155 85155 85155 85154 85153 85151 85149 85149 85147 85146	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.919 1.919 1.923 1.924 2.577 2.573 2.573	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.805 313.905 313.931 312.571 314.525 313.790 312.484	.0451 .0452 .0468 .2554 .2551 .2558 .2566 .4438 .4466 .4478 .8503 .8503 .8589 1.2135 1.2262	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .07111 .05266 .14291 .11610 .07098 .14298 .11619 .09223 .07101	. 02282 .02269 .02218 .02394 .02384 .02369 .02361 .02441 .02424 .02405 .02406 .02553 .02525 .02526 .02526 .02669 .02653	.004 .007 .007 .005 .006 .006 .003 .005 .010 .002 .002 .002 .002	. 02252 . 02249 . 02268 . 02361 . 02363 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02683 . 02642	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51
85162 85161 85159 85157 85157 85155 85155 85155 85155 85149 85149 85146 85146 85145	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.077 1.919 1.919 1.923 1.924 2.577 2.573 2.573 3.121	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.805 313.905 313.310 312.571 314.525 313.751 313.090 312.484 314.137	.0451 .0452 .0452 .2554 .2558 .2556 .4438 .4453 .4466 .8503 .8555 .8585 .2135 1.2166 1.2215 1.2262	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .09216 .07098 .14298 .11619 .09223 .07101 .14292	. 02 282 . 02 269 . 02 218 . 02 394 . 02 384 . 02 361 . 02 441 . 02 425 . 02 406 . 02 525 . 02 525 . 02 526 . 02 487 . 02 669 . 02 669 . 02 653 . 02 805	.004 .007 .007 .003 .005 .006 .006 .003 .003 .005 .0102 .002 .002 .002 .002 .002	. 02252 . 02249 . 02208 . 02361 . 02363 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481 . 02642 . 02642 . 02642	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51 -1.00
85162 85161 85159 85159 85157 85155 85155 85155 85155 85151 85149 85149 85146 85146 85146 85144	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.077 1.919 1.923 1.924 2.577 2.573 2.573 2.573 3.121	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.805 313.965 313.310 312.571 314.525 313.751 313.090 312.484 314.137 313.535	.0451 .0452 .0468 .2554 .2551 .2558 .2558 .4453 .4466 .4478 .8468 .8503 .8555 .8589 1.2135 1.2262 1.5666 1.5736	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .09216 .07098 .14298 .11619 .09223 .07101 .14292 .11620	. 02282 . 02269 . 02269 . 02394 . 02384 . 02369 . 02361 . 02441 . 02424 . 02405 . 02553 . 02555 . 02556 . 02466 . 02669 . 02660 . 02654 . 02655 . 02685 . 02805 . 02805	.004 .007 .007 .005 .006 .006 .003 .005 .010 .002 .002 .002 .002 .002 .003 .005	. 02252 . 02249 . 02261 . 02361 . 02363 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481 . 02642 . 02642 . 02642 . 02642 . 02648 . 02785 . 02773	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51 -1.00 -1.52
85162 85161 85159 85159 85157 85155 85155 85155 85154 85153 85154 85149 85149 85144 85144 85144 85144	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.919 1.919 1.923 1.924 2.577 2.573 2.573 2.573 3.121	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.805 313.905 313.931 312.571 313.751 313.751 313.751 313.751 313.751 313.751	.0451 .0452 .0468 .25542 .2551 .2558 .2556 .4438 .4453 .4466 .4478 .8503 .8555 .8589 1.2135 1.2166 1.2215 1.2262 1.5665 1.5736 1.57859	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .09216 .07098 .14298 .11619 .09223 .07101 .14292 .11620 .07109	. 02282 . 02269 . 02269 . 02394 . 02384 . 02369 . 02361 . 02441 . 02424 . 02405 . 02553 . 02525 . 02526 . 02526 . 02687 . 02669 . 02654 . 02653 . 02855 . 02855 . 02855	.004 .007 .007 .005 .006 .006 .003 .005 .002 .002 .002 .003 .005 .002	. 02252 . 02249 . 02361 . 02363 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481 . 02642 . 02642 . 02642 . 02642 . 02648 . 02785 . 02773	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51 -1.00 -1.52 -1.08
85162 85161 85159 85157 85155 85155 85155 85155 85153 85153 85154 85149 85147 85145 85144 85145 85145	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.919 1.919 1.923 1.924 2.577 2.573 2.573 2.573 3.121 3.121	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.805 313.905 313.905 313.910 312.571 314.525 313.751 314.525 313.751 314.525 313.751 314.525 313.751 314.525	.0451 .0452 .0468 .2542 .2551 .2558 .2566 .4438 .4466 .4478 .8503 .8555 .8589 1.2135 1.2262 1.5666 1.5736 1.5859 1.5814	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .07111 .05266 .14291 .11610 .09216 .07098 .14298 .11629 .07101 .14292 .11620 .07109	.02282 .02269 .02218 .02394 .02384 .02386 .02369 .02361 .02424 .02405 .02405 .02525 .02525 .02526 .02526 .02526 .02660 .02653 .02653 .02805 .02795 .02795	.004 .007 .007 .005 .006 .006 .005 .005 .002 .002 .002 .005 .002 .005 .005	. 02252 . 02249 . 02261 . 02361 . 02363 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481 . 02642 . 02642 . 02642 . 02642 . 02648 . 02785 . 027790 . 02790	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51 -1.00 -1.52 -1.08 -1.26
85162 85161 85160 85159 85157 851554 851554 851552 851554 85159 85149 85146 85	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.919 1.919 1.923 1.924 2.577 2.573 2.573 2.573 3.121	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.660 313.728 313.012 312.499 314.805 313.965 313.310 312.571 314.525 313.751 313.090 312.487 314.137 313.535 312.497 312.877 314.873	.0451 .0452 .0468 .2554 .2551 .2558 .2558 .4453 .4466 .4478 .8468 .8503 .8555 .8589 1.2135 1.2262 1.5666 1.5736 1.5859 1.5814 2.1494 2.1661	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .09216 .07098 .11619 .09223 .07101 .14292 .11620 .07109 .09217 .17260 .14295	. 02282 . 02269 . 02269 . 02394 . 02384 . 02369 . 02361 . 02441 . 02424 . 02405 . 02553 . 02525 . 02526 . 02526 . 02687 . 02669 . 02654 . 02653 . 02855 . 02855 . 02855	.004 .007 .007 .003 .005 .006 .003 .005 .002 .002 .002 .002 .002 .002 .002	. 02252 . 02249 . 02361 . 02363 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481 . 02642 . 02642 . 02642 . 02642 . 02642 . 02785 . 02773 . 02779 . 02784 . 03066 . 03072	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51 -1.00 -1.52 -1.08 -1.26 -1.77 -2.24
85162 85161 85159 85157 85155 85155 85155 85155 85154 85155 85154 85147 85146 85147 85146 85147 85146 85147 85149	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.919 1.919 1.923 1.924 2.577 2.573 2.573 2.573 2.573 3.121 3.121 3.121 3.872 3.872	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.805 313.905 313.910 312.571 314.525 313.751 313.751 313.751 313.751 313.751 313.751 313.751 313.751 313.751 313.751 313.751 313.751	.0451 .0452 .0468 .25542 .2551 .2558 .2556 .4438 .4453 .4466 .4478 .8468 .8503 .8555 .2135 1.2166 1.2215 1.2262 1.5665 1.5736 1.5859 1.5859 1.5814 2.1494 2.16661 2.1811	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .09216 .07098 .14298 .11619 .09223 .07101 .14292 .11620 .07109 .09217 .17260 .14295 .11618	. 02282 . 02269 . 02269 . 02394 . 02384 . 02369 . 02361 . 02441 . 02424 . 02405 . 02553 . 02525 . 02526 . 02469 . 02654 . 02654 . 02653 . 02855 . 02795 . 02792 . 03085 . 03069	.004 .007 .007 .003 .005 .006 .003 .005 .002 .002 .003 .005 .002 .003 .005 .002	. 02252 . 02249 . 02361 . 02363 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481 . 02642 . 02642 . 02642 . 02648 . 02773 . 02773 . 02790 . 02784 . 03066 . 03072 . 03061	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51 -1.00 -1.52 -1.08 -1.26 -1.77 -24 -24
85162 85161 85159 85157 85155 85155 85155 85155 85153 85153 85149 85144 85144 85144 85145 85143 85143 85143 85143 85143	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.919 1.919 1.923 1.924 2.577 2.573 2.573 2.573 2.573 3.121 3.121 3.121 3.872 3.872 3.872 3.872	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.865 313.965 313.965 313.971 314.525 313.751 313.690 312.484 314.137 313.535 312.497 312.873 314.577 313.833 314.577 313.833 312.670	.0451 .0452 .0468 .2542 .2551 .2558 .2566 .4438 .4466 .4478 .8503 .8555 .8589 1.2135 1.2166 1.5265 1.5666 1.57859 1.5814 2.1494 2.1661 2.1811 2.1911	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .09216 .07098 .14292 .11619 .09223 .07101 .14292 .11629 .1	. 02282 . 02269 . 02269 . 02394 . 02384 . 02369 . 02361 . 02424 . 02405 . 02405 . 02525 . 02526 . 02526 . 02526 . 02653 . 02653 . 02653 . 02653 . 02795 . 02795 . 02795 . 03083 . 03085 . 03069 . 03062	.004 .007 .007 .003 .005 .006 .003 .005 .002 .002 .003 .005 .002 .003 .005 .002 .003 .005 .005	. 02252 .02249 .02268 .02361 .02363 .02355 .02355 .02412 .02404 .02393 .02401 .02522 .02503 .02511 .02481 .02643 .02642 .02642 .02648 .02785 .02773 .02770 .02790 .02784 .03066 .03072 .03061	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51 -1.00 -1.52 -1.08 -1.26 -1.7 -2.4 -87 -1.15
85162 85161 85169 85159 85157 85155 85155 85155 85155 85155 85146 85146 85146 85146 85146 85146 85147 85146 85147	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.919 1.919 1.923 2.577 2.573 2.573 2.573 2.573 3.121 3.121 3.121 3.121 3.872 3.872 3.872 3.872	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.499 314.805 313.905 313.905 313.310 312.571 314.525 313.751 313.090 312.484 314.137 313.535 312.487 313.535 312.487 313.834 313.834 313.838	.0451 .0452 .0452 .2554 .2558 .2556 .4438 .4453 .4466 .8503 .8555 .2215 1.2262 1.5666 1.5736 1.5859 1.5881 2.1494 2.1661 2.1811 2.1811 2.2883	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .09216 .07098 .14298 .11619 .09223 .07101 .14292 .11620 .07109 .07217 .17260 .14295 .11618 .1	. 02 282 . 02 269 . 02 269 . 02 384 . 02 384 . 02 361 . 02 441 . 02 425 . 02 406 . 02 553 . 02 525 . 02 525 . 02 526 . 02 487 . 02 669 . 02 669 . 02 669 . 02 653 . 02 805 . 02 792 . 03 083 . 03 085 . 03 085 . 03 062 . 03 148	.004 .007 .007 .003 .005 .006 .003 .005 .010 .002 .002 .002 .002 .003 .005 .002 .002 .002 .003 .005	. 02252 . 02249 . 02361 . 02363 . 02355 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481 . 02642 . 02642 . 02642 . 02642 . 02785 . 02773 . 02790 . 02784 . 03066 . 03072 . 03061 . 03057	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.95 -1.59 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.52 -1.00 -1.26 -1.51 -1.26 -1.51
85161 85160 85155 85157 85155 85155 85155 85155 85155 85155 85155 85147 85146 85147 85149 85149 85133 85135	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.919 1.919 1.923 1.924 2.577 2.573 2.573 2.573 2.573 3.121 3.121 3.121 3.121 3.872 3.872 3.872 3.872 3.872 4.016 4.016	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.865 313.965 313.965 313.971 314.525 313.751 313.690 312.484 314.137 313.535 312.497 312.873 314.577 313.833 314.577 313.833 312.670	.0451 .0452 .0468 .2542 .2551 .2558 .2566 .4438 .4466 .4478 .8503 .8555 .8589 1.2135 1.2166 1.5265 1.5666 1.57859 1.5814 2.1494 2.1661 2.1811 2.1911	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .09216 .07098 .14292 .11619 .09223 .07101 .14292 .11629 .1	. 02282 . 02269 . 02269 . 02394 . 02384 . 02369 . 02361 . 02424 . 02405 . 02405 . 02525 . 02526 . 02526 . 02526 . 02653 . 02653 . 02653 . 02653 . 02795 . 02795 . 02795 . 03083 . 03085 . 03069 . 03062	.004 .007 .007 .003 .005 .006 .003 .005 .002 .003 .005 .002 .003 .005 .002 .003 .005 .003	. 02252 . 02249 . 02361 . 02363 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481 . 02642 . 02642 . 02642 . 02648 . 02773 . 02773 . 02779 . 02779 . 03066 . 03057 . 0303131 . 03134	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51 -1.00 -1.52 -1.08 -1.7 -24 -87 -1.15 -1.26 -1.17 -24 -87 -1.15 -1.52
85162 85161 85159 85157 85155 85155 85155 85155 85155 85155 85149 85146 85146 85149 85149 85149 85137 85133 85133 85133	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.077 1.919 1.919 1.923 1.924 2.577 2.573 2.574 2	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.805 313.965 313.965 313.751 314.525 313.751 313.054 314.8137 313.535 312.484 314.137 313.535 312.4873 314.577 313.834 313.183 312.670 314.380 313.708 313.755	.0451 .0452 .0452 .2552 .2551 .2558 .2556 .4438 .4453 .4458 .8503 .8555 1.2166 1.2215 1.2262 1.5666 1.5736 1.5736 1.5859 1.21811 2.1811 2.1811 2.1811 2.2883 2.3058 2.3233 2.4402	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .09216 .14298 .11619 .09223 .07101 .14292 .11620 .07101 .14292 .11620 .07101 .14292 .11618 .09213 .17247 .14289 .11618	. 02 282 . 02 269 . 02 269 . 02 384 . 02 384 . 02 361 . 02 441 . 02 425 . 02 406 . 02 525 . 02 525 . 02 525 . 02 526 . 02 669 . 02 669 . 02 669 . 02 653 . 02 805 . 02 788 . 02 795 . 02 795 . 03 083 . 03 085 . 03 089 . 03 089 . 03 082 . 03 148 . 03 142 . 03 121 . 03 205	.004 .007 .007 .003 .005 .006 .003 .005 .002 .003 .005 .002 .003 .005 .002 .003 .005 .002 .003 .005 .003 .005 .003 .005 .005	. 02252 . 02249 . 02268 . 02361 . 02363 . 02355 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481 . 02643 . 02642 . 02642 . 02648 . 02785 . 02773 . 02790 . 02784 . 03066 . 03072 . 03061 . 03057 . 03134 . 03131 . 03114	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51 -1.00 -1.52 -1.00 -1.52 -1.08 -1.26 -1.7 -24 -87 -1.15 -28 -66 -1.52 -26
85161 85160 85155 85157 85155 85155 85155 85155 85155 85155 85155 85147 85146 85147 85149 85149 85133 85135	.117 .117 .121 .637 .638 .638 .638 1.076 1.077 1.077 1.919 1.919 1.923 1.924 2.577 2.573 2.573 2.573 2.573 3.121 3.121 3.121 3.121 3.872 3.872 3.872 3.872 3.872 4.016 4.016	314.484 313.667 312.814 314.792 313.738 313.154 312.499 314.460 313.728 313.012 312.439 314.805 313.905 313.910 312.571 314.525 313.751 313.090 312.484 314.137 313.535 312.497 312.873 314.577 313.834 313.183 312.670 314.380 313.708	.0451 .0452 .0468 .2554 .2551 .2558 .2556 .4438 .4453 .4466 .4478 .8468 .8503 .8555 .2135 1.2166 1.2215 1.2262 1.5666 1.5736 1.5859 1.5814 2.1494 2.1494 2.1661 2.1811 2.2833 2.3058 2.3233	.09234 .07116 .05268 .11629 .09234 .07106 .05262 .11626 .09230 .07111 .05266 .14291 .11610 .09216 .07098 .14298 .11619 .09223 .07101 .14292 .11620 .07109 .14295 .11618 .09223 .17247 .14289 .11610	.02282 .02269 .02269 .02384 .02384 .02369 .02361 .02441 .02424 .02405 .02553 .02555 .02526 .02569 .02669 .02664 .02653 .02805 .02795 .02795 .02795 .02795 .03085 .03085 .03069 .03062 .03142	.004 .007 .007 .003 .005 .006 .003 .005 .002 .003 .005 .002 .003 .005 .002 .003 .005 .003	. 02252 . 02249 . 02361 . 02363 . 02355 . 02412 . 02404 . 02393 . 02401 . 02522 . 02503 . 02511 . 02481 . 02642 . 02642 . 02642 . 02648 . 02773 . 02773 . 02779 . 02779 . 03066 . 03057 . 0303131 . 03134	-4.23 -4.37 -6.31 -1.68 -1.58 -1.93 -1.97 -2.43 -2.11 -1.74 -2.54 -2.27 -3.58 -1.53 -1.62 -1.65 -1.51 -1.00 -1.52 -1.08 -1.26 -1.17 -24 -87 -1.15 -1.26 -1.17 -24 -36 -1.52

85132	4.556	312.873	2.9648	.11682	.03550	.003	.03548	21
	4.556	311.752	3.0268	.05298	.03528	.011	.03529	-1.98
85131								
85130	4.556	312.101	3.0059	.07148	.03539	.007	.03539	-1.30
85129	4.556	312.375	2.9917	•09266	.03504	•004	.03503	-2.03
85128	4.749	312.983	3.2522	.11708	.03728	• 203	.03728	98
85126	4.749	312.000	3.3247	.03746	.03699	.018	.03699	-3.30
95125	4.749	311.899	3.3326	.05311	.03829	.011	• 0 38 29	• 05
85124	4.748	312.323	3.2994	.07179	.03831	.007	.03831	• 77
85123	4.750	316.546	3.0395	.09254	.03693	.005	.03700	2.50
			3.5946	.09236	.03966	.005	.03965	-1.89
85122	4.898	312.203						
85121	4.908	313.324	3.5090	•17236	.03903	•002	.03907	-1.60
85120	4.908	312.858	3.5518	.14290	.03945	.003	.03947	-1.46
85119	4.908	312.449	3.5915	.11610	.03941	•003	.03942	-2.45
85118	5.111	313.386	3.9436	.20478	.04262	.002	.04273	-1.80
85117	5.111	312.085	4.1425	.09246	.04415	.007	•04416	-2.73
85116	5.111	312.980	4.0003	.17248	•04309	•003	.04317	-1.99
85115	5.111	312.558	4.0642	.14295	.04358	.005	.04362	-2.29
85114	5.111	311.923	4.1713	.11614	.04409	.007	.04408	-3.52
			4.4616		.04704	.006	.04704	-3.02
85113	5.204	312.042		.11646				
85112	5.204	313.007	4.2601	.20475	.04513	•003	.04524	-2.77
85111	5.204	312.519	4.3558	.17245	.04583	.003	.04589	-3.35
85110	5.204	312.071	4.4548	.14263	.04624	.004	.04625	-4.65
85109	5.427	312.095	5.5904	.11681	.05962	.007	.05964	.34
85108	5.427	312.909	5.1924	.20515	.05547	.004	•05566	08
85107	5.427	312.497	5.3762	.17287	.05626	.004	• 05637	-1.96
85106	5.427	312.524	5.3651	.14388	.05789	• 305	.05800	1.10
85105	5.417	313.140	5.0542	.24013	.05482	.003	.05506	1.27
			5.3524					-3.57
95104	5.418	312.429		.20441	.05518	•004	.05527	
85103	5.418	312.065	5.5454	.17217	.05688	.004	.05689	-3.76
85102	5.418	311.837	5.6833	.14262	.0577C	.009	.05767	-4.49
85101	5.499	312.754	5.6999	.23993	.06068	.003	.06087	.77
85100	5.499	312.452	5.8855	.20502	.06256	•003	.06267	1.14
85099	5.499	312.430	5.8996	.17307	.06433	• 305	.06444	3.67
85098	5.499	311.620	6.5363	.14255	.06516	.005	.06507	-2.14
85097	5.576	312.283	6.6322	.20452	.06744	.004	.06752	.78
								39
85096	5.576	311.910	6.9576	.17228	.06822	•004	.06820	
85095	5.576	311.810	7.0474	.14281	.06930	.006	.06926	.67
85094	5.576	311.444	7.3857	.11599	.07008	.010	•06997	.38
85393	5.603	312.282	5.8541	.20474	.06877	.004	.06885	1.16
85092	5.603	311.992	7.1066	.17243	.06897	.004	.06897	03
85091	5.603	311.693	7.3723	.14280	.07008	.007	.07002	• 48
95090	5.504	311.488	7.5572	•11601	.07084	.008	.07075	1.05
85089	5.671	312.441	7.2406	.23953	.05933	.003	.06945	.10
85088	5.671	312.179	7.4552	.20444	.06953	.004	.06957	39
85087	5.671	311.801	7.7586	.17217	.07028	.005	.07024	• 0 4
85086	5.672	311.720	7.8248	.14265	•06992	•007	.06987	56
85085	5.770	312.490	7.8348	.23955	.06920	.003	.06931	-1.38
85084	5.770	312.170	8.0535	.20458	.06898	.004	.06901	-1.90
85083	5.770	311.442	8.5041	.17249	.06910	.005	.06905	-1.63
85082	5.770	311.609	8.4069	.14270	.06976	.007	•06972	73
85081	5.830	312.513	8.1296	.23953	.06921	.003	.06931	-1.46
85080	5.830	312.199	8.3183	.20457	.06938	.003	.06941	-1.23
85079	5.830	311.858	8.5103	.17222			.06891	-1.82
					.06893	.003		
85078	5.830	311.788	8.5483	•14270	.06959	.005	.06957	84
85077	5.924	312.939	8.2861	.27743	.06883	.002	.06900	-1.85
85076	5.924	312.434	8.5514	.23960	.06891	• 0 0 2	.06897	-1.71
85075	5.924	312.183	8.5740	.20449	.06949	.003	.06951	81
85074	5.924	311.910	8.8008	.17215	.06877	.003	.06876	-1.80
85073	6.069	313.330	8.5013	.31840	.06863	.301	.0688 4	-1.86
85072	6.069	313.030	8.7329	.27769	.06835	•002	.06848	-2.28
95071	6.069	312.630	8.8986	.23990	.06894	.002	.06900	-1.38
85070	6.069	312.361	9.0037	.20471	.06884	.003	.06886	-1.51
95069	6.069	312.057						82
			9.1176	•17264	.06930	•004	.06930	
85058	5.209	313.149	9.0398	.31800	.06862	.301	.06872	-1.70
85067	6.209	312.903	9.1253	.27756	.05893	.002	.06899	-1.27
85066	6.209	312.603	9.2256	.23979	.06897	.002	.06900	-1.24
85065	6.209	311.863	9.4564	.20472	.06902	.003	.06902	-1.26
85064	6.244	314.216	8.7263	.31905	.06883	•002	.06919	-1.23
85053	6.244	313.237	9.0856	.27633	.06830	.002	.06840	-2.16
85062	6.244	312.994	9.1674	.23871	. 36825	.002	.06831	-2.26
85051	6.244	312.566	9.3050	.20357	.06838	.003	.06840	-2.13
85060					.06923		.06939	73
	6.716	314.753	9.4612	.45519		.001		
85059	6.716	313.885	9.5705	.36013	.06947	.001	.06949	79
85058	6.716	313.249	9.8145	.27657	.06956	.002	.06953	97
85057	5.716	312.504	9.9738	.20386	.07008	.003	.07005	59
85056	7.163	315.859	9.7634	45906	.07124	.001	.07134	1.68
85055	6.593	314.022	9.4574	.36015	.07068	.001	.07077	1.23
85054	7.163	313.425	10.2187	.27687	.07127	.002	.07117	. 20
85053	7.163	313.000	10.2916	.20415	.07144	.003	.07136	.16
85052	8.211	315.405	10.6367	.56036	.07305	.001	.07272	.32
85051	8.212							
		314.630	10.7374	.45492	.07370	.001	.07341	.64
85050	8.211	313.835	10.8374	.35992	.07391	•002	.07368	.36
85049	8.212	313.032	10.9365	.27607	.07415	.002	.07401	.11
85048	9.431	316.074	11.1319	.61931	.07657	.001	.07600	1.27
85047	9.432	315.284	11.2129	.50825	.07715	.001	.07666	1.46
		2221201						

0.5044	0 422	214 754	11 2442	40074	07777	001	0772/	1 00
85046	9.432	314.756	11.2662	.40874	.07777	.001	•07734	1.89
85045	9.432	313.377	11.4026	.31677	•07712	.001	•07689	•11
85040	11.269	316.248	11.7116	.67838	.08027	.009	•07951	• 49
85039	11.269	315.470	11.7746	.56170	.08075	.001	.08012	• 60
85038	11.270	314.704	11.8364				•08031	
				•45528	.08082	.001		• 20
85037	11.271	314.003	11.8923	.36056	.08123	.001	.08085	•27
85036	13.578	316.056	12.2548	.67678	.08437	.001	•08356	45
85035	13.578	315.417	12.2977	.56072	.08482	.001	.08413	26
85034	13.578	314.603	12.3522	.45521	.08509	.001	.08456	39
85033	13.578	314.061	12.3882	.36073	.08535	.001	•08493	38
85032	16.869	316.350	12.7900	.67867	.09006	.001	.08914	38
85031	16.869	315.570	12.9341		•09057	.001		18
				.56242			•08981	
85030	16.869	314.803	12.9773	.45616	.09055	.001	•08995	~. 56
85029	16.868	314.136	12.9146	.36056	•09054	.002	•09008	88
85028	21.226	314.309	13.4370	.36149	.09684	• 002	•09634	82
85027	21.227	316.080	13.3516		.09598	• 002	.09510	-1.01
				•67871				
85026	21.227	315.357	13.3866	.56194	.09655	.001	•09583	70
85025	21.229	314.639	13.4214	.45526	.09649	•002	•09592	-1.05
85024	26.236	315.862	13.8473	.80670	.10239	.001	•10157	88
85023	26.236	315.135	13.8783	.67867	.10255	.001	.10189	98
85022	26.236	314.700	13.8968	.56193	.10273	.001	•10216	96
85021	26.237	313.834	13.9337	.45514	.10273	.001	•10234	-1.26
85020	32.898	314.272	14.4190	.45567	.10970	.001	.10924	-1.15
85019	32.897	315.836	14.3600		.10958	.001	.10879	77
				.80604				
85018	32.898	315.195	14.3842	• 67830	.10984	.001	• 109 19	73
85017	32.897	314.436	14.4128	.56114	.10983	.001	•10933	98
85016	41.600	316.300	14.8765	.94484	.11775	.001	.11691	42
85015								
	41.600	315.651	14.8983	.80583	.11783	.001	.11712	53
85014	41.598	314.843	14.9253	.67776	•11804	.001	•11749	58
85013	41.594	314.511	14.9361	•56098	.11815	.002	•11767	57
85012	52.114	315.977	15.4056	.94518	.12695	.001	.12624	. 23
85011	52.101	315.292	15.4258	.80568	•12702	.001	.12643	•12
85010	52.090	314.743	15.4418	.57851	•12719	.001	•12670	•12
85009	52.074	314.133	15.4595	.56149	.12737	.001	.12699	•11
85008	64.284	315.536	15.9107	.94339	.13618	.001	.13562	.71
85007	64.258	315.223	15.9188	.80575	.13637	.001	•13586	•78
85006	54.267	314.630	15.9350	.67815	·13670	.001	•13628	. 88
85005	64.269	314.152	15.9482	.56092	.13695	.001	•13661	. 94
85004	68.124	315.798	16.0419	.94451	.13904	.001	.13845	1.05
								1.03
85003	68.123	315.147	16.0592	.80528	•13 923	.001	.13875	
85002	68.121	314.575	16.0745	.67839	.13985	.001	.13946	1.33
95001	68.120	313.879	16.0931	.56189	.14024	.001	.13995	1.44
78125	2.580	315.282	1.2097	.14275	.02620	.003	.02586	-3.70
78124	2.580	314.669	1.2142	.11610	.02605	.004	.02577	-4.12
78123	2.580	314.116	1.2192	.09222	.02601	.005	.02579	-4.11
78122	2.580	313.470	1.2230	.07103	.02627	.013	.02612	-2.88
78121	5.386	313.851	4.7000	.27624	.05131	.010	.05166	1.59
78120	5.386	313.411	4.8213	.23886	.05241	.004	.05268	1.20
78119	5.386	313.264	4.8686	.20418	•05397	.004	.05421	3.12
78118	5.386	313.035	4.9423	.17211	.05528	.004	.05548	4.01
78117	5.386	312.901	4.9884	.14273	. 05654	.007	.05671	5.29
78116	5.386	312.630	5.0883	.11618	•05773	.009	.05785	5.45
78115	5.492	313.283	5.3893	.23897	.06008	.004	• 06040	4 • 65
78114	5.492	313.023	5.5132	.20417	.06183	.004	•06209	5.39
78113	5.492	312.802	5.6292	.17211	.06353	.006	.06373	6.20
78112	5 • 4 92	312.702	5.6880	.14275	.06454	.007	.06472	6.83
78111	5.492	312.541	5.7841	•11616	.06581	.010	•06595	7.32
79110	5.570	313.209	5.9191	.23904	.06512	.004	.06547	4.95
78109	5.570	313.050	6.0179	.20416	.06627	.007	.06658	5.36
78108	5.571	312.735	6.2354	.17214	.06758	.008	.06779	4.73
78107	5.571	312.613	6.3253	.14279	.06808	.008	•06825	4.49
78106	5.571	312.552	6.3715	.11615	.06942	.010	.06957	5 • 88
78105	5.602	313.181	6.1561	.23910	.06670	.005	.06706	4.52
78104	5.602	313.013	6.2709	.20415	.06757	.006	.06787	4.49
78103	5.602	312.859	6.3812	.17209	.06871	•006	.06896	4.96
78102	5.602	312.694	6.5062	.14276	.06929	.008	.06949	4.60
78101	5.602	312.525	6.6393	.11618	.06896	.011	.06911	3.01
78100	5.633	313.310	6.2907	.23908	.06757	.004	.06798	4.45
78099	5.633	313.221					.06906	5.37
			6.3516	.20424	.06868	•005		
78098	5.633	312.929	6.5666	.17219	•06920	.006	.06948	4.09
78097	5.633	312.704	6.7417	.14283	.06974	.008	.06995	3.44
78096	5.633	312.570	6.8520	.11620	.06989	.010	.07005	2.87
78095	5.736	313.253	7.0596	.20429	.06858	.005	.06897	.20
78094	5.736	312.557	7.5128	.11620	.06844	.010	.06861	-1.94
78093	5.737	313.187	7.1154	.20434	•06900	.005	•06936	• 51
78092	5.737	312.924	7.3135	.17222	.06868	.006	.06894	89
78091	5.737						.06850	-1.95
19041	20131	312.745	7.4513	.14282	.06830	.008	•06850	-1.45
					Experimental		Adjusted Thermai	Conductivity
					Thermai		at a nominal	deviation
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 325 K	
· GIT I CO						SIMI		
	MPB	К	mol/L	W/m	W/m.K		W/m•K	percent
86145	.212	322.509	.0799	.03659	.02449	.014	.02479	-1.34
86144	.212	325.164	.0794	.11447	.02487	.004	.02485	-1.09
			, .		774101			

0/3/3	212	224 221	.0796	.09091	.02488	.004	.02497	60
86143	.212	324.231					.02502	42
86142	.212	323.528	.0799	•07005	.02484	•006		
86141	.212	322.741	•0802	.05187	.02417	.010	.02444	-2.79
86140	•778	322.892	.3044	.05202	•02502	.008	.02527	-1.55
86139	.779	324.818	•3025	.11454	•02551	•003	•02553	48
86138	.779	324.104	.3032	•09095	.02544	• 004	•02554	44
86137	.779	323.142	.3044	.06997	•02529	.005	•02551	60
86136	1.326	324.110	.5361	.09118	.02616	.005	.02626	•11
86135	1.325	324.425	.5354	.11439	.02589	.003	.02595	-1.06
			5341	.14058	.02621	.002	.02619	12
86134	1.327	325.134						30
86133	1.327	325.667	•5329	•16949	.02622	• 002	.02615	
86132	2.422	323.528	1.0690	•09096	.02751	.004	.02765	00
86131	2.422	324.158	1.0656	.11453	.02771	•003	•02779	• 53
86130	2.422	324.601	1.0631	.14064	.02780	•003	.02784	.73
86129	2.422	325.203	1.0598	.16956	.02759	•002	.02757	20
86128	2.422	326.009	1.0555	.20099	.02772	.001	.02762	•03
86127	3.089	323.991	1.4451	.11471	.02871	.003	.02879	• 05
86126	3.089	325.322	1.4332	.14043	.02873	•002	.02870	12
86125	3.089	325.307	1.4333	.16954	.02898	.002	.02896	.75
	3.089	325.584	1.4309	.20086	.02888	.001	.02883	• 35
86124								
86123	3.998	324.024	2.0674	.14075	.03126	• 0 02	.03129	1.11
86122	4.000	324.589	2.0582	.16946	.03127	•002	.03128	1.19
86121	4.000	325.140	2.0486	.20092	•03137	•001	.03136	1.56
86120	4.000	325.733	2.0390	.23501	.03135	• 001	•03132	1.55
86119	4.436	324.464	2.4204	•16965	.03300	•002	.03300	1.82
86118	4.438	324.965	2.4102	.20132	.03301	.002	.03301	1.99
86117	4.436	325.494	2.3954	.23544	.03328	.001	•03328	2.97
86116	4.438	326.066	2.3831	.27203	.03300	.001	.03300	2.30
86115	4.927	323.930	2.9222	.16970	.03549	.002	.03542	1.77
						.002	.03552	2.38
86114	4.927	324.510	2.8996	.20125	•03555			
86113	4.928	325.048	2.8796	•23526	.03552	•001	.03552	2.68
86112	4.928	325.295	2.8704	.27201	.03543	•001	.03545	2.60
86111	5.352	324.150	3.4325	.20158	.03871	.002	•03858	2.41
86110	5.349	324.621	3.4001	.23581	.03857	•001	.03851	2.75
86109	5.349	325.147	3.3700	.27270	•03855	.001	•03857	3.36
86108	5.350	326.750	3.2859	.31231	.03817	.001	.03840	4.20
86107	5.660	323.776	3.9290	.20105	.04175	.002	.04144	1.47
86106	5.660	324.289	3.8840	.23531	.04146	•002	.04128	1.83
86105	5.661	324.542	3.8632	.27220	.04130	•002	.04119	1.94
86104	5.661	324.907	3.8332	.31153	.04123	.002	.04121	2.47
86103	5.887	323.874	4.3381	.20136	• 04479	•003	• 0 44 40	1.58
86102	5.887	324.053	4.3169	.23559	.04444	•003	.04411	1.30
86101	5.888	324.312	4.2883	.27213	.04410	•002	.04387	1.21
86100	5.888	324.771	4.2373	.31182	.04377	•002	.04369	1.65
86099	6.127	323.525	4.9210	.20124	.04873	•003	.04801	.05
86098	6.127	323.874	4.8617	.23570	.04841	• 0 0 2	.04788	.69
86097	6.127	324.345	4.7859	.27279	.04785	.002	.04755	1.19
86096	6.127	324.549	4.7545	.31182	.04708	.002	.04688	. 27
86095	6.261	323.904	5.1946	.23619	.05104	.033	•05044	. 84
86094	6.261	324.325	5.1138	.27338	.05019	.026	.04983	. 82
	6.261							
86093		324.505	5.0808	.31283	•05021	.021	.04995	1.55
86092	6.261	324.897	5.0115	.35449	.04951	.024	• 04946	1.61
86091	6.261	325.266	4.9495	•39955	.04866	•020	.04879	1.21
86090	6.271	325.846	4.8784	•40305	.04952	.020	•04993	4.52
85089	6.271	324.760	5.0596	.35514	•04968	• 024	.04955	1.08
86088	6.271	324.005	5.2008	.31212	.05000	.029	•04945	-1.24
86087	6.271	323.494	5.3053	.27176	.05046	•035	.04960	-2.47
86086	6.450	324.172	5.6801	.31317	•05402	•332	.05349	02
86085	6.460	326.309	5.2373	.55170	.05123	.014	.05197	3.15
86084	6.461	325.022	5 • 4 9 0 3	.44760	.05200	.017	.05201	29
86083	6.461	324.185	5.6790	.35454	.05333	.025	.05281	-1.29
86082	6.461	323.175	5.9384	.27173	.05495	.038	.05372	-2.82
86081	6.785	325.811	6.1799	.55226	.05640	.014	•05698	
								-41
86080	6.785	324.856	6.4330	.44793	•05742	.020	.05731	-1.57
86079	6.786	323.931	6.7035	.35471	.05827	.028	.05749	-3.73
86078	6.786	323.040	6.9817	.27180	.05910	• 041	.0576 8	-5.59
86077	6.878	325.765	6.4445	•55231	•05770	•015	•05826	03
86076	6.879	324.914	6.6799	.44815	.05895	.015	.05889	-1.06
86075	6.879	324.042	6.9369	.35488	.05987	.002	.05917	-2.61
86074	6.879	323.136	7.2205	.27185	•06056	• 0 02	.05924	-4.43
86073	7.178	325.695	7.2393	.55240	.06125	.002	.06175	31
86072	7.179	324.714	7.5164	.44778	.06185	.001	.06166	-2.00
86071	7.179	323.969	7.7304	.35489	.06270	.001		-2.39
86070	7.179						.06204	
		323.059	7.9941	.27201	.06301	•002	.06188	-3.79
86069	7.413	325.677	7.7714	•55245	.06298	.001	.06341	36
86068	7.413	324.723	9.0228	.44808	.06341	.001	.06325	-1.65
86067	7.414	323.985	8.2163	.35488	.06386	• 0 0 2	.06331	-2.27
86066	7.414	323.084	8.4486	.27205	.06424	•002	.06332	-3.09
86065	7.615	326.504	7.9592	.65735	.06338	.001	.06429	.24
86064	7.615	325.489	8.2063	.55178	.06410	.001	.06437	56
86063	7.616	324.602	8.4203	.44779	.06455	.001	.06435	-1.34
86062	7.616	323.783	8.6138	.35410	.06447	.001	.06394	-2.69
86061	8.061	326.641	8.6364	•66782	.06562	.001	.06634	. 96
86060	8.061							
86059	8.062	325.669	8.8334	•55261	•06623	.001	.06649	.48
00009	0.002	324.766	9.0121	.44807	.06655	.001	.06647	21

86058	8.063	323.950	9.1694	.35472	.05669	.001	.06639	97
85057	8.771	327.097	9.3383	.67155	.06869	.001	.06922	2.45
96056			9.4455					
	8.772	326.417		.55622	.06924	•001	• 06955	2.44
86055	8.772	325.389	9.5038	.45163	•06969	•001	•06976	1.97
86054	8.772	324.053	9.8030	.35529	.06952	.001	•06940	.38
8 6 0 5 3	9.521	329.172	9.7680	.67794	.07179	.001	•07224	4.49
86052	9.521	327.339	9.8764	.56171	.07245	.001	.07272	4.53
36751	9.522	327.636	9.8384	.45856	.07338	•001	.07371	6.02
86050	9.523	328.307	9.7513	.36923	.07511	.001	.07560	8.82
86049	10.691	327.433	10.4926	.57420	.07464	.001	.07461	2.91
86048	10.690	327.360	10.4997	.55976	.07529	.001	•07526	3.69
86047	10.690	325.038	10.7330	.44961	.07477	•001	•07477	1.18
86046	10.691	323.933	10.8417	.35466	•07446	.001	.07454	07
86045	11.988	327.970	10.9448	•67578	.07803	.001	•07778	3.20
86044	11.988	327.699	10.9682	.56396	.07926	.001	•07902	4.52
96043	11.989	326.348	11.0839	.45529	.07911	.001	•07897	3.42
86042	11.989	325.540	11.1521	.36007	.07870	•002	.07364	2.37
86041	11.990	324.688	11.2238	.36161	.07878	.001	.07882	1.91
86040	14.469	324.292	11.8818	.35399	.08232	.001	.08245	54
	14.469		11.7427					76
86039		326.347		.66440	.08124	.001	•08101	
86038	14.470	325.441	11.8045	.54972	.08148	•001	.08140	96
86037	14.470	324.670	11.8567	.44582	•08159	.001	.08165	-1.24
86035	17.218	324.214	12.3939	.35405	.08623	.001	.08639	-1.80
86035	17.217	324.757	12.3623	.44685	.08665	.001	.08670	-1.06
86034	17.218	326.145	12.2819	.66439	.08575	.001	•08552	-1.49
86033	17.217	325.425	12.3237	.54970	.08608	.001	•08599	-1.43
86032	20.957	324.063	12.9279	.44837	.09272	.001	.09293	97
86031	20.957	326.081	12.8271	.79235	.09190	•001	.09166	-1.10
86030	20.957	325.404	12.8610	.66703	.09227	•001	.09218	95
86029	20.957	325.014	12.8805	•55392	•09296	.001	•09296	35
85028	25.559	323.871	13.4388	.44848	.09871	•001	.09896	-1.04
86027	25.563	325.636	13.3617	.79042	•09761	.001	•09747	-1.60
86026	25.563	324.837	13.3969	.66493	.09789	.001	.09793	-1.57
86025	25.564	324.029	13.4324	•54996	•09783	.001	•09805	-1.90
86024	31.503	326.318	13.8558	.92756	.10413	.001	.10384	-1.49
86023	31.503	325.408	13.8912	.79064	.10442	.001	.10433	-1.47
86922	31.502	324.644	13.9209	.66505	.10480	.001	.10488	-1.31
86021	31.503	324.054	13.9438	.55078	.10479	.001	.10500	-1.49
86020	38.525	323.917	14.4355	.55208	.11265	.001	.11288	49
								-1.11
86019	38.525	326.025	14.3619	.92854	•11136	•001	•11114	
86018	38.525	325.271	14.3882	.79158	•11161	.001	•11155	-1.07
86017	38.525	323.442	14.4521	.66734	.11227	.001	.11260	95
86016	47.479	323.767	14.9449	.55230	•12037	.001	•12061	33
86015	47.478	327.091	14.8403	. 92575	.11864	.001	.11822	-1.01
86014	47.478	324.947	14.9078	.79107	.11984	.001	•11985	49
86013	47.479	324.170	14.9322	.66567	.12020	.001	•12037	38
86012	51.754	326.213	15.0803		.12322	.001	•12298	10
86011	51.759	325.387	15.1054	.92795	.12334	.001	•12326	19
85010	51.760			.79138	.12357	•001	•12320	15
		324.761	15.1243					
86009	51.757	324.049	15.1456	•66534	.12348	.001	•12366	~.3 8
85008	64.209	325.860	15.6253		.13313	.001	.13298	.81
86007	64.207	325.163	15.6443	.92781	.13328	•001	.13325	•77
86006	64.205	324.496	15.6624	.79169	.13330	.001	.13339	• 64
86005	64.202	324.124	15.6724	.66649	.13331	.001	.13346	•57
86004	67.171	325.753	15.7411	1.07460	.13499	.001	.13486	• 75
86003	67.176	325.167	15.7569	.92731	.13515	•001	.13512	.74
86002	67.175	324.588	15.7724	.79101	.13515	.001	.13522	.62
85001	67.174	323.892	15.7910	.66552	.13530	.001	.13549	.58
33001	0, 11,4	3231072	1301710	.00002	*13730	*007	******	.,,

5. Propane Results

A total of 400 points are given in Table 5. The results are reported in [12]. The computer programs developed for the thermal conductivity surface of propane are shown below. The equation of state used for propane is given in [13].

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FUNCTION THERMR(DD,T)
      PROPANE THERMAL CONDUCTIVITY, RODER AND CASTRO
C
      DIMENSION GT(9), ET(8), FT(4), G(7)
      DATA (NTR=1)
      IF(NTR.EQ.O) GO TO 1
      GT(1) = -1.0893811033E + 06
      GT(2) = 8.3432978294E+05
      GT(3) = -2.2709027355E + 05
      GT(4) = 1.6678663676E+04
      GT(5) = 4.3473205647E+03
      GT(6) = -1.1777846709E + 03
      GT(7) = 1.2154258330E+02
      GT(8) = -6.0405969210E + 00
      GT(9) = 1.2073736806E - 01
      ET(1) = -1.0924494641E+01
      ET(2)=-9.5984868950E-02
      ET(3) = 1.4806220800E+01
      ET(4) = 2.5545815041E+04
      ET(5) = -1.8740978557E + 04
      ET(6) = 1.2697095137E+03
      ET(7) = 1.3890247487E+02
      ET(8)=0.221
      FT(1) = -1.1498131307E + 00
      FT(2) = 7.8853122149E-01
      FT(3)=1.12
      FT(4) = 358.9
      EM=44.10
      G(1) = -.578825E + 1
      G(2) = .181340E + 3
      G(3) = .963981E+1
      G(4) = -.130794E + 4
      G(5) = .114746E+1
      G(6) = -.982209E + 2
      G(7) = .476504E+4
      NTR=0
    1 CONTINUE
   RETURNS TO IN MW/M.K , T IN K, D IN G/CM**3
      D=DD*EM/1000.
      TF=T**(1./3.)
      TFF=T**(-4./3.)
      SUM=0
      DO 20 I=1,9
      TFF=TFF*TF
   20 SUM=SUM+GT(I)*TFF
      DIL V = SUM
      FDCV=(FT(1)+FT(2)*(FT(3)-ALOG(T/FT(4)))**2)*D
      THE=(D-0.221)/0.221
      DD01=D**0.1
      THE05=THE*D**0.5
      TCCALC = G(1) + G(2) / T + G(3) * DDO1 + G(4) * DDO1 / T * * 1.5
     1 +G(5)*THE05+G(6)*THE05/T+G(7)*THE05/T**2
      THERMR = DILV + FDCV + EXP (TCCALC)
      RETURN
      END
```

Table 5. The Thermal Conductivity of Propane

					Experimental		Adjusted Thermal	
Run Pt.	Pressure	Temperature	Density	Power	Thermal Conductivity	STAT	at a nominal Temperature of 299 K	deviation
KUN Pt.	MPa	K	moi/L	W/m	W/m.K	SIAI	W/m.K	from correlation percent
							****	Paradit
30013	1.587	294.214	11.2778	.14049	.09353	.050	.09379	-1.02
30014 30015	1.587 1.588	296.569	11.2651	.20104	.09352	.030	•09375	82
30016	1.588	296.996 297.538	11.2498	.27239 .35450	.09345 .09401	.019	•09364 •09415	65 .27
30017	1.588	298.053	11.2117	.44763	.09371	.009	•09380	.25
30018	1.588	298.685	11.1887	.55153	.09352	.007	.09355	• 42
30019	1.588	299.361	11.1639	.56618	.09324	.005	.09321	• 52
30020	1.588	300.134	11.1354	•79163	.09275	.004	•09265	•45
30021	1.588	300.942	11.1054	.92782	.09192	.003	.09174	•04
30022	1.588	295.995	11.2499	.27183	.09361	.019	.09380	48
30023 30024	1.588 1.588	297•467 297•967	11.2329	.35411	.09344 .09420	.012	.09358 .09430	38 .72
30025	1.588	298.643	11.1902	.55085	.09352	.006	.09355	•40
30026	1.589	299.321	11.1654	.66542	.09332	.004	.09329	• 58
30027	1.588	300.133	11.1355	.79066	.09293	.004	.09283	•65
30028	1.588	300.924	11.1051	.92700	•09236	.003	•09218	•51
32001	67.559	297.552	13.2452	.54936	.14011	•009	.14028	22
32002 32003	67.514 67.510	296.701 298.413	13.2587	.35295 .78840	•13991 •13942	.018	•14019 •13949	57 47
32004	67.510	299.575	13.2109		.13924	.003	.13917	29
32005	67.503	298.052	13.2360	.66310	.13949	.007	.13960	51
32006	67.496	298.954	13.2210	.92416	.13898	.004	•13899	64
32007	57.495	300.251	13.1995		.13937	.003	•13922	02
32008	67.492	297.381	13.2471	•54923	.13967	.009	.13986	56
32009	59.635	297.065 297.970	13.1120	.44570	•13627	.013	•13650	16
32010 32011	59.635 59.635	299.124	13.0963	.66332 .92377	.13576 .13507	.005 .004	•13588 •13506	28 47
32012	59.541	300.438	13.0537		.13474	.003	•13457	36
32013	59.643	298.587	13.0858	.78789	.13543	.005	.13548	36
32014	52.256	297.148	12.9669	.44541	.13214	.012	.13235	21
32015	52.260	298.025	12.9511	.66292	•13100	.007	.13111	83
32016	52.264	299.178	12.9303	.92336	•13122	.004	.13120	33
32017 32018	52.268 52.264	300.486 299.840	12.9068		.13063 .13086	.003	•13046	40 41
32019	44.940	296.803	12.9173	.35281	.12742	.014	•13076 •12767	72
32020	44.942	297.617	12.8019	.54878	.12814	.007	.12929	.09
32021	44.945	298.753	12.7804	.78764	.12730	.005	.12733	22
32022	44.948	299.393	12.7683	•92322	•12706	.004	.12702	22
32023	44.949	300.001	12.7568		•12642	.003	•12631	54
32024	44.950	300.730	12.7430		.12643	.003	•12624	31
32025 32026	37.620 37.616	296.803 297.760	12.6447	.35302 .54905	•12335 •12356	.016 .009	•12359 •12369	-•42 •07
32027	37.613	298.884	12.6027	.78815	.12294	.005	.12295	07
32028	37.605	300.212	12.5758		.12222	.003	.12209	23
32029	37.598	299.503	12.5899	.92396	•12238	.004	.12233	3,2
32031	30.485	297.326	12.4447	.44571	•11 821	•911	.11839	64
32032	30.485	298.339	12.4230	.66335	.11793	.005	.11800	53
32033 32034	30.487 23.164	299.681 296.509	12.3942	.92398	•11757 •11419	•004 •022	•11750 •11445	-•37 •07
32035	23.164	297.351	12.2217	.44542	.11392	.011	.11409	•15
32036	23.166	298.443	12.1964	.66295	.11277	.005	.11283	45
32037	23.166	299.738	12.1663	.92354	.11190	.004	•11182	75
32038	23.166	300.473	12.1491		•11195	.003	.11180	42
32039	16.446	295.703	11.9999		.10778	.021	.10801	91
32040 32041	16.447 16.449	297.447 298.624	11.9809	.44621 .66407	•10795 •10782	.010	•10810 •10786	45 08
32042	16.454	300.037		.92507	•10669	.004	•10766	56
32043	16.456	300.845	11.8943		.10672	.004	.10654	20
32044	9.542	296.255	11.7240	.20041	.10243	.031	.10270	53
32045	9.644	298.165	11.6690	•54982	.10248	.007	.10256	•41
32046	9.644	297.121	11.6992	.35343	.10200	.013	.10218	55
32047	9.646	299.586	11.6279	.78903	.10088	.004	•10082	50
32048 32050	9.648 3.216	300.244 297.201	11.6088	.92514 .35349	.10073 .09510	.003 .011	•10061 •09527	35 80
32051	3.216	298.393	11.3078	•54977	.09470	.005	.09476	56
32052	3.217	299.778	11.2600	.78929	.09410	.004	.09403	42
32053	3.217	300.519	11.2343	.92538	.09343	.003	.09329	72
32054	3.220	301.422	11.2028	1.07206	.09322	• 002	•09299	44
					Experimental		Adjusted Thermat	Conductivity
					Experimental Thermai		at a nominal	deviation
Run Pt.	Pressure	Temperature	Density	Power	Conductivity	STAT	Temperature of 261 K	
	MPs	K	mol/L	W/m	W/m.K		W/m+K	percent
37003	68.062	259.694	13.8871	•47623	.15786	•017	• 15804 16755	1.24
37004	68.062	260.425	13.8748	.68392	.15747	•006	•15755	1.19

37005	68.065	261.402	13.8583	.92900	.15706	.004	•15701	1.20
37006		262.423		1.21185	.15612	.004	.15593	. 89
	68.065		-					
37007	60.421	259.059	13.7860	.30640	•15372	.027	•15398	•82
37008	60.414	259.688	13.7749	.47663	.15468	.014	•15485	1.61
								1.15
37009	60.414	260.400	13.7624	.68453	•15364	.007	•15372	
37010	60.407	261.330	13.7461	.93021	.15314	• 0 0 5	•15310	1.10
37011	60.407	262.441	13.7267	1.21355	•15217	•003	•15198	• 79
37012	53.454	259.027	13.6773	.30600	•15078	.026	•15103	1.22
37013	53.457	259.647	13.6661	•47615	.15064	.014	•15081	1.31
37014	53.457	260.361	13.6532	.68386	.15000	.008	•15008	1.10
37015	53.464	261.340	13.6357	.92902	.14907	.005	•14903	• 77
37016	53.464	262.415	13.6163	1.21196	.14841	.003	•14823	. 65
				.30615		.025		. 64
37018	46.459	258.983	13.5604		.14620.		.14645	
37019	46.457	259.273	13.5549	.38665	•14719	.018	.14740	1.40
37020	46.459	259.977	13.5417	.57574	.14670	.010	•14683	1.29
37021	46.459	260.841	13.5255	.80235	.14595	.005	.14597	1.05
37022	46.459	261.933	13.5051	1.06666	.14529	.004	•14518	. 94
37023	39.293	259.118	13.4273	.30615	.14343	.025	.14366	1.54
37024	39.292	259.638	13.4171	•47656	•14219	.013	•14235	. 85
37025	39.292	260.518	13.3998	.68434	.14236	•008	•14242	1.26
37025	39.295	261.523	13.3802	.92965	.14147	.005	.14141	• 96
37027	39.295	262.595	13.3742	1.21328	•14068	•003	•14049	.76
37028	32.175	259.103	13.2860	.30621	.13931	.024	.13953	1.61
37029	32.180	259.787	13.2721	.47638	.13868	.013	.13882	1.40
37030	32.180	260.587	13.2557	.68427	•13778	.007	.13783	1.03
37031	32.180	261.611	13.2346	.92974	•13740	.005	•13733	1.11
37032	32.180	262.794		1.21304	.13638	.003	•13617	•78
37033	24.914	258.918	13.1307	.23548	•13301	.035	13324	• 28
37034	24.914	259.476	13.1186	.38731	•13466	.017	•13483	1.70
				.57666	.13414	.009		1.61
37035	24.920	260.263	13.1016				.13422	
37036	24.921	261.165	13.0820	.80381	•13331	.005	•13329	1.33
37037	24.920	262.344	13.0564	1.06859	•13231	.004	.13216	1.02
37038	18.290	258.924	12.9689	.23568	.13057	.034	•13079	1.79
37039	18.290	259.486	12.9560	.38734	.12994	.016	•13010	1.53
37040	18.290	260.462	12.9334	.57651	.12899	.009	.12905	1.20
37041	18.294	261.351	12.9130	.80387	.12861	• 0 0 5	.12857	1.25
37042	18.294	262.439	12.8878	1.06885	.12805	•003	•12790	1.25
37043	11.364	258.951	12.7775	.23570	.12522	.033	.12543	1.58
37044	11.364	259.614	12.7610	.38739	•12479	.016	.12493	1.52
37045	11.370	260.482	12.7396	•57670	•12338	.008	•12343	•77
37046	11.370	261.461	12.7152	.80383	.12389	.005	.12384	1.59
37047	11.373	262.620	12.6863	1.06882	.12311	•003	•12295	1.46
37048	3.854	259.094	12.5322	.23563	•11919	.031	•11938	1.68
37048	3.854	259.094	12.5322	.23563	•11919 11010	.031	•11938	1.68
37049	3.856	259.723	12.5150	.38732	.11910	.013	•11922	1.90
37049 37050	3.856 3.858	259.723 260.577	12.5150 12.4915	.38732 .57679	•11910 •11759	.013	•11922 •11763	1.90 1.05
37049 37050 37051	3.856 3.858 3.862	259.723 260.577 261.674	12.5150 12.4915 12.4613	.38732 .57679 .80391	.11910 .11759 .11778	.013 .008 .005	.11922 .11763 .11771	1.90 1.05 1.72
37049 37050	3.856 3.858	259.723 260.577	12.5150 12.4915 12.4613	.38732 .57679	•11910 •11759	.013	•11922 •11763	1.90 1.05
37049 37050 37051	3.856 3.858 3.862	259.723 260.577 261.674	12.5150 12.4915 12.4613	.38732 .57679 .80391	.11910 .11759 .11778 .11484	.013 .008 .005	.11922 .11763 .11771 .11466	1.90 1.05 1.72 22
37049 37050 37051	3.856 3.858 3.862	259.723 260.577 261.674	12.5150 12.4915 12.4613	.38732 .57679 .80391	.11910 .11759 .11778	.013 .008 .005	.11922 .11763 .11771	1.90 1.05 1.72 22
37049 37050 37051	3.856 3.858 3.862	259.723 260.577 261.674	12.5150 12.4915 12.4613	.38732 .57679 .80391	.11910 .11759 .11778 .11484	.013 .008 .005	.11922 .11763 .11771 .11466	1.90 1.05 1.72 22 Conductivity
37049 37050 37051 37052	3.856 3.858 3.862 3.864	259.723 260.577 261.674 262.861	12.5150 12.4915 12.4613 12.4283	.38732 .57679 .80391 1.06900	.11910 .11759 .11778 .11484 Experimental Thermal	.013 .008 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal	1.90 1.05 1.72 22 Conductivity deviation
37049 37050 37051	3.856 3.858 3.862 3.864	259.723 260.577 261.674 262.861	12.5150 12.4915 12.4613 12.4283	.38732 .57679 .80391 1.06900	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity	.013 .008 .005	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K	1.90 1.05 1.7222 Conductivity deviation from correlation
37049 37050 37051 37052	3.856 3.858 3.862 3.864	259.723 260.577 261.674 262.861	12.5150 12.4915 12.4613 12.4283	.38732 .57679 .80391 1.06900	.11910 .11759 .11778 .11484 Experimental Thermal	.013 .008 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal	1.90 1.05 1.72 22 Conductivity deviation
37049 37050 37051 37052	3.856 3.858 3.862 3.864	259.723 260.577 261.674 262.861	12.5150 12.4915 12.4613 12.4283	.38732 .57679 .80391 1.06900	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity	.013 .008 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K	1.90 1.05 1.7222 Conductivity deviation from correlation
37049 37050 37051 37052 Run Pt.	3.856 3.858 3.862 3.864 Pressure	259.723 260.577 261.674 262.861 Temperature K	12.5150 12.4915 12.4613 12.4283 Density mol/L	.38732 .57679 .80391 1.06900	.11910 .11759 .11778 .11484 Experimentsi Thermal Conductivity W/m.K	.013 .008 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K	1.90 1.05 1.7222 Conductivity deviation from correlation percent
37049 37050 37051 37052 Run Pt.	3.856 3.858 3.862 3.864 Pressure MPa 67.411	259.723 260.577 261.674 262.861 Temperature K	12.5150 12.4915 12.4613 12.4283 Density moi/L	.38732 .57679 .80391 1.06900 Power W/m	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955	.013 .008 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K	1.90 1.05 1.7222 Conductivity deviation from correlation percent76
37049 37050 37051 37052 Run Pt.	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975	.013 .008 .005 .003 STAT	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975	1.90 1.05 1.7222 Conductivity deviation from correlation percent7644
37049 37050 37051 37052 Run Pt.	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413	259.723 260.577 261.674 262.861 Temperature K	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367	.38732 .57679 .80391 1.06900 Power W/m	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975	.013 .008 .005 .003 STAT	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975	1.90 1.05 1.7222 Conductivity deviation from correlation percent76
37049 37050 37051 37052 Run Pt. 31002 31003 31004	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4219	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16973	.013 .008 .005 .003 STAT .011 .007	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719	12.5150 12.4915 12.4613 12.4283 Density mo!/L 14.4492 14.4367 14.4219 14.4073	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16873 .16901	.013 .008 .005 .003 STAT .011 .007 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873	1.90 1.05 1.72 22 Conductivity deviation from correlation percent 76 44 80 40
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.414	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4219 14.4073 14.4638	.38732 .57679 .80391 1.06900 POWER W/m .59031 .80240 1.04721 1.32506 .33344	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16873 .16901 .16967	.013 .008 .005 .003 STAT .011 .007 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993	1.90 1.05 1.72 22 Conductivity deviation from correlation percent 76 44 80 40 92
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4073 14.4638 14.4549	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .333344 .49650	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16873 .16901	.013 .008 .005 .003 STAT .011 .007 .005	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873	1.90 1.05 1.72 22 Conductivity deviation from correlation percent 76 44 80 40
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.411	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.7719 225.440 225.956	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4073 14.4638 14.4549	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .333344 .49650	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16952	.013 .008 .005 .003 STAT .011 .007 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16969	1.90 1.05 1.72 22 Conductivity deviation from correlation percent 76 44 80 40 92 87
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.411 67.411	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.496 225.956 226.628	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4549 14.4638	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214	.11910 .11759 .11778 .11484 Experimentsi Thermai Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16952 .16891	.013 .008 .005 .003 STAT .011 .007 .005 .003 .028 .015	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16873 .16993 .16969 .16897	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.411 67.408 67.410	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4638 14.4549	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16952 .16891 .16927	.013 .008 .005 .003 STAT .011 .007 .005 .003 .028 .015	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16969 .16897	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.0463
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.411 67.411	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.496 225.956 226.628	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4638 14.4549	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214	.11910 .11759 .11778 .11484 Experimentsi Thermai Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16952 .16891	.013 .008 .005 .003 STAT .011 .007 .005 .003 .028 .015	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16873 .16993 .16969 .16897	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414 67.411 67.411 67.408 67.410 67.413	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4638 14.4639 14.473	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16967 .16967 .16967 .16952	.013 .008 .005 .003 STAT .011 .007 .005 .003 .028 .015 .009	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16969 .16897 .16991 .16903	1.90 1.05 1.72 22 Conductivity deviation from correlation percent 76 44 80 40 92 87 -1.04 63 44
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.411 67.408 67.410 67.413	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.015 227.870 228.719 225.440 225.956 226.628 227.335 228.136 229.207	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4549 14.4433 14.4303 14.4303 14.4303	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16952 .16891 .16927 .16921 .16921	.013 .008 .005 .003 STAT .011 .007 .005 .003 .028 .015 .009 .006	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16993 .16969 .16897 .16921 .16903 .16903	1.90 1.05 1.72 22 Conductivity deviation from correlation percent 76 44 80 40 92 87 -1.04 63 44 63 44
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.411 67.410 67.413 67.413 67.413	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.496 225.956 226.628 227.345 228.136 229.207 225.816	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4549 14.4433 14.4539 14.4398 14.3599	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16973 .16901 .16962 .16991 .16927 .16921 .16927	.013 .008 .005 .003 STAT .011 .007 .005 .009 .006 .004 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16873 .16993 .16969 .16897 .16921 .16903 .16782 .16782	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.54
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.411 67.408 67.410 67.413	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.015 227.870 228.719 225.440 225.956 226.628 227.335 228.136 229.207	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4549 14.4433 14.4303 14.4303 14.4303	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16952 .16891 .16927 .16921 .16921	.013 .008 .005 .003 STAT .011 .007 .005 .003 .028 .015 .009 .006	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16993 .16969 .16897 .16921 .16903 .16903	1.90 1.05 1.72 22 Conductivity deviation from correlation percent 76 44 80 40 92 87 -1.04 63 44 63 44
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.408 67.410 67.411 59.530 59.535	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.220 225.816 229.207 225.816	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4549 14.4473 14.4309 14.4473 14.3988 14.3599 14.3491	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085 .59011	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16952 .16891 .16927 .16921 .16817 .16494 .16595	.013 .008 .005 .003 STAT .011 .007 .005 .003 .015 .009 .006 .004	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16969 .16897 .16921 .16903 .16782 .16513 .16513	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.5475
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414 67.411 67.410 67.410 67.410 67.411 59.530 59.535 59.540	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.071	12.5150 12.4915 12.4613 12.4283 Density mo!/L 14.4492 14.4367 14.4638 14.4549 14.4439 14.4398 14.4398 14.3398 14.3398	.38732 .57679 .80391 1.06900 POHER W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085 .59011 .80221	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16967 .16967 .16927 .16921 .16817 .16921 .16817 .16495 .16595 .16600	.013 .008 .005 .003 .011 .007 .005 .003 .028 .015 .006 .004 .003 .019 .011	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16993 .16993 .16903 .16921 .16903 .16782 .16513 .16604 .16599	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.547553
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31018 31009 31010 31011 31012 31013 31014 31015	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414 67.411 67.410 67.413 67.411 59.530 59.535 59.540 59.537	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.860	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4638 14.4638 14.4638 14.4398 14.4173 14.3988 14.3599 14.3377 14.3236	.38732 .57679 .80391 1.06900 POWER W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .492066 1.18196 1.47646 .41085 .59011 .80221 1.04705	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16952 .16891 .16927 .16921 .16817 .16494 .16595 .16600 .16551	.013 .008 .005 .003 .011 .007 .003 .028 .015 .006 .004 .003 .011 .007	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16999 .16897 .16903 .16903 .16782 .16513 .16604 .16599 .16538	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.54755360
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414 67.411 67.410 67.410 67.410 67.411 59.530 59.535 59.540	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.071	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4638 14.4638 14.4638 14.4398 14.4173 14.3988 14.3599 14.3377 14.3236	.38732 .57679 .80391 1.06900 POHER W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085 .59011 .80221	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16967 .16967 .16927 .16921 .16817 .16921 .16817 .16495 .16595 .16600	.013 .008 .005 .003 .011 .007 .005 .003 .028 .015 .006 .004 .003 .019 .011	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16993 .16993 .16903 .16921 .16903 .16782 .16513 .16604 .16599	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.547553
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31010 31011 31012 31013 31014 31015 31015	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.410 67.410 67.410 67.411 59.530 59.535 59.540 59.537	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.496 225.496 227.345 228.136 229.207 225.816 229.207 225.816 226.423 227.680 227.860 228.784	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4549 14.4633 14.4539 14.3599 14.3377 14.3376 14.3376	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 .47646 .41085 .59011 .80221 1.04705 1.04705	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16977 .16927 .16927 .16921 .16927 .16921 .16921 .16494 .16595 .16695 .16595	.013 .008 .005 .003 STAT .011 .007 .005 .009 .006 .004 .019 .011 .007 .005	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16599 .16538	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.5475536063
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31010 31011 31012 31013 31014 31015 31016 31017	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.410 67.410 67.410 59.530 59.535 59.540 59.537 59.538 59.538	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.870 228.784	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4549 14.4533 14.4337 14.3988 14.3599 14.3491 14.3377 14.3236 14.3072 14.2671	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 .41085 .59011 .80221 1.047646 .41085 .59011 .80221	.11910 .11759 .11778 .11484 Experimental Themmal Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16952 .16891 .16927 .16921 .16927 .16921 .16921 .16955 .16600 .16595 .16600 .16595 .16600	.013 .008 .005 .003 STAT .011 .007 .005 .003 .019 .006 .004 .003 .019	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16599 .16599	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.54755360606380
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.410 67.410 67.410 67.411 59.530 59.537 59.540 59.537 59.538 52.268	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.860 228.784 227.870	12.5150 12.4915 12.4613 12.4283 Density mo!/L 14.4492 14.4367 14.4638 14.4549 14.4309 14.4173 14.3988 14.3599 14.3377 14.3236 14.3072 14.3271 14.32563	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085 .59011 .80221 1.04705 1.32499 .41101 .59014	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16952 .16891 .16927 .16921 .16817 .16494 .16595 .16600 .16551 .16500	.013 .008 .005 .003 .005 .003 .028 .015 .009 .006 .004 .003 .011 .007 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16993 .16993 .16921 .16903 .16782 .16513 .16604 .16599 .16538 .16473	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.54755360638075
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414 67.411 67.408 67.410 67.413 67.411 59.530 59.537 59.537 59.537 59.538 52.268 52.277	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.870 228.784	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4638 14.4638 14.473 14.4638 14.4339 14.3377 14.3236 14.3377 14.3236 14.3072 14.2673 14.2673 14.2673	.38732 .57679 .80391 1.06900 POHER W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085 .59011 .80221 1.04705 1.32499 .41101 .59014 .80234	.11910 .11759 .11778 .11484 Experimental Themmal Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16952 .16891 .16927 .16921 .16927 .16921 .16921 .16955 .16600 .16595 .16600 .16595 .16600	.013 .008 .005 .003 STAT .011 .007 .005 .003 .019 .006 .004 .003 .019	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16599 .16599	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.54755360606380
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414 67.411 67.408 67.410 67.413 67.411 59.530 59.537 59.537 59.537 59.538 52.268 52.277	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 229.207 225.816 227.071 227.860 228.784 227.860 228.784 225.667 226.263 227.052	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4638 14.4638 14.473 14.4638 14.4339 14.3377 14.3236 14.3377 14.3236 14.3072 14.2673 14.2673 14.2673	.38732 .57679 .80391 1.06900 POHER W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085 .59011 .80221 1.04705 1.32499 .41101 .59014 .80234	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16967 .16967 .16967 .16921 .16817 .16921 .16817 .16494 .16595 .16600 .16551 .16501 .16501 .16284 .1628	.013 .008 .005 .003 .005 .001 .005 .003 .028 .015 .006 .004 .003 .019 .007 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16993 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16599 .16538 .16473 .16304	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.5475536063807573
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31019 31020	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.410 67.410 67.410 59.530 59.535 59.540 59.537 59.538 52.278 52.283	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 229.207 225.816 229.207 225.816 226.423 227.071 227.860 228.784 225.667 226.263 227.052	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4549 14.4633 14.4539 14.3599 14.3377 14.3236 14.3072 14.2671 14.2563 14.2563 14.2215	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 .69214 .92066 1.18196 .59011 .80221 1.047646 .41085 .59011 .80224 1.04775 1.32499 .41101 .59014 .80234 1.04746	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16977 .16927 .16921 .16927 .16921 .16817 .16494 .16595 .16600 .16551 .16501 .16501 .16284 .1628	.013 .008 .005 .003 STAT .011 .007 .005 .009 .015 .009 .011 .007 .005 .003 .019 .011	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16538 .16473 .16304 .16275 .16227	1.90 1.05 1.7222 Conductivity deviation from correlation percent 764480409287 -1.0463447553606380757575757575
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31019 31020 31021	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414 67.411 67.411 67.410 67.410 67.410 59.530 59.535 59.540 59.537 59.538 52.277 52.283 52.283	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 221.870 228.719 225.440 225.450 226.628 227.345 228.27 228.16 229.207 225.816 226.423 227.071 227.860 228.784 227.072 227.837 226.263 227.052 227.837 228.808	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4638 14.4539 14.4633 14.4337 14.3377 14.3378 14.3377 14.326 14.2563 14.2563 14.2575 14.2275 14.2097	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.41685 .59011 .80221 1.04705 1.04705 1.04705 1.04705 1.04705 1.04705 1.04705 1.04705 1.04706	.11910 .11759 .11778 .11484 Experiments I Thouctivity W/m.K .16955 .16975 .16975 .16970 .16952 .16891 .16927 .16921 .16921 .16921 .16921 .16595 .16600 .16551 .16501 .16501 .16264 .16228 .16228	.013 .008 .005 .003 STAT .011 .007 .005 .003 .019 .011 .007 .005 .003 .019 .011 .007	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16599 .16599 .16538 .16473 .16304 .16275 .16227	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.0463447553606380755360638075757575
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.411 67.410 67.410 67.411 59.530 59.537 59.536 59.537 59.538 52.277 52.288 52.283 52.283	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 229.207 225.816 229.207 225.816 226.423 227.071 227.860 228.784 225.667 226.263 227.052	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4638 14.4539 14.4633 14.4337 14.3377 14.3378 14.3377 14.326 14.2563 14.2563 14.2575 14.2275 14.2097	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 .69214 .92066 1.18196 .59011 .80221 1.047646 .41085 .59011 .80224 1.04775 1.32499 .41101 .59014 .80234 1.04746	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16977 .16927 .16921 .16927 .16921 .16817 .16494 .16595 .16600 .16551 .16501 .16501 .16284 .1628	.013 .008 .005 .003 STAT .011 .007 .005 .009 .015 .009 .011 .007 .005 .003 .019 .011	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16538 .16473 .16304 .16275 .16227	1.90 1.05 1.7222 Conductivity deviation from correlation percent 764480409287 -1.0463447553606380757575757575
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.411 67.410 67.410 67.411 59.530 59.537 59.536 59.537 59.538 52.277 52.288 52.283 52.283	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 229.207 225.816 226.423 227.071 227.860 228.784 227.071 227.860 228.784 227.072	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4549 14.4549 14.4533 14.3988 14.3589 14.3491 14.3377 14.3236 14.3671 14.2563 14.2671 14.2275 14.2097 14.2097	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085 .59011 .80221 1.04705 1.32499 .80234 1.04746 .80234 1.04746	.11910 .11759 .11778 .11484 Experimental Themail Conductivity W/m.K .16955 .16975 .16873 .16901 .16967 .16921 .16817 .16921 .16817 .16595 .16600 .16551 .16501 .16284 .1628 .1628	.013 .008 .005 .003 .003 .011 .007 .005 .009 .006 .004 .003 .019 .007 .005 .003 .011 .007 .005	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16993 .16993 .16921 .16903 .16513 .16513 .16604 .16599 .16538 .16473 .16538 .16473 .16304 .16275 .16227	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.0463447515475536063807573695575
37049 37050 37051 37052 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022 31022	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.411 67.411 67.411 67.410 67.410 67.410 67.411 59.530 59.537 59.538 52.268 52.277 52.278 52.283 52.283 52.288 44.798	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.800 228.784 227.860 228.784 227.860 228.784 227.860 228.784 227.867 226.263 227.837 228.808 229.302 226.377	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4638 14.4549 14.4309 14.4173 14.3378 14.3377 14.3236 14.3072 14.2673 14.2673 14.2673 14.2673 14.2673 14.2673 14.2673	.38732 .57679 .80391 1.06900 POHER W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085 .59011 .80221 1.04705 1.32499 .41101 .59014 .80234 1.04746 1.32550 1.32550	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16967 .16967 .16921 .16817 .16921 .16817 .16595 .16600 .16551 .16501 .16501 .1628 .1628 .1628 .1628	.013 .008 .005 .003 .011 .007 .005 .003 .019 .007 .005 .003 .011 .007 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16599 .16538 .16473 .16304 .16275 .16227 .16215 .16145	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.5475536063807573495586
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022 31022 31022 31022	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.411 67.410 67.410 67.411 59.530 59.535 59.537 59.537 59.538 52.268 52.277 52.283 52.283 52.283 52.283	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.456 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.860 228.784 225.667 226.263 227.052 227.837 228.808 229.302 226.377 228.308 229.302 226.377 226.377 227.102	12.5150 12.4915 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4549 14.4331 14.4398 14.4398 14.3599 14.3377 14.3236 14.3072 14.2671 14.2563 14.2077 14.2563 14.218 14.275 14.2097 14.3098	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 .18196 .18196 .147646 .41085 .59011 .80221 1.04765 1.32499 .41101 .59014 .80234 1.04766 1.32550 1.47744 .80234 1.04746 1.32550 1.47734 .80240	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16975 .16991 .16952 .16891 .16927 .16921 .16817 .16494 .16595 .16000 .16551 .16501 .16284 .16264 .16228 .16172 .16164 .1628 .1628 .1628 .16172 .16184 9	.013 .008 .005 .003 STAT .011 .007 .005 .009 .015 .009 .011 .007 .005 .003 .019 .011 .007	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16538 .16473 .16538 .16473 .16227 .16215 .16227 .16215 .16145 .16145	1.90 1.05 1.7222 Conductivity deviation from correlation percent 764480409287 -1.046344755360638075536063807555558080
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31010 31011 31012 31013 31014 31015 31015 31016 31017 31018 31019 31019 31020 31021 31022 31022 31022 31022 31025 31026	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414 67.411 67.411 67.410 67.410 67.411 59.530 59.535 59.540 59.537 59.537 59.538 52.268 52.277 52.283 52.283 52.283 52.283 52.283	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.440 225.456 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.860 228.784 227.075 228.784 227.075 228.784 227.075 228.7837 228.808 229.302 226.377 227.837 228.808	12.5150 12.4915 12.4283 12.4283 12.4283 14.4219 14.4492 14.4433 14.4539 14.4433 14.4339 14.3377 14.3377 14.3377 14.326 14.2275 14.2275 14.2097 14.1488 14.1488 14.1481 14.1493 14.1493	.38732 .57679 .80391 .006900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 .47646 .41085 .59011 .80221 1.04764 1.04764 1.04746 1.32550 1.47734 .59024 1.04746 1.32550	.11910 .11759 .11778 .11484 Experiments I Thermal Conductivity W/m.K .16955 .16975 .16975 .16901 .16967 .16922 .16891 .16927 .16921 .16494 .16595 .16600 .16551 .16501 .16501 .16264 .16288 .16228 .16228 .16172 .16164 .15849 .15849 .15849	.013 .008 .005 .003 .011 .007 .005 .003 .019 .007 .005 .003 .011 .007 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16599 .16538 .16473 .16304 .16275 .16227 .16215 .16145	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.5475536063807573697573495586
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022 31022 31022 31022	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.414 67.414 67.411 67.411 67.410 67.410 67.411 59.530 59.535 59.537 59.537 59.538 52.268 52.277 52.283 52.283 52.283 52.283	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.456 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.860 228.784 225.667 226.263 227.052 227.837 228.808 229.302 226.377 228.308 229.302 226.377 226.377 227.102	12.5150 12.4915 12.4283 12.4283 12.4283 14.4219 14.4492 14.4433 14.4539 14.4433 14.4339 14.3377 14.3377 14.3377 14.326 14.2275 14.2275 14.2097 14.1488 14.1488 14.1481 14.1493 14.1493	.38732 .57679 .80391 .006900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 .47646 .41085 .59011 .80221 1.04764 1.04764 1.04746 1.32550 1.47734 .59024 1.04746 1.32550	.11910 .11759 .11778 .11484 Experiments I Thermal Conductivity W/m.K .16955 .16975 .16975 .16901 .16967 .16922 .16891 .16927 .16921 .16494 .16595 .16600 .16551 .16501 .16501 .16264 .16288 .16228 .16228 .16172 .16164 .15849 .15849 .15849	.013 .008 .005 .003 STAT .011 .007 .005 .009 .006 .004 .007 .005 .003 .019 .011 .007 .003 .019 .003 .019	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16999 .16897 .16921 .16903 .16782 .16513 .16604 .16599 .16538 .16473 .16304 .16275 .16227 .16215 .16215 .16215	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.5475536063807575757575757575
37049 37050 37051 37052 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022 31024 31025 31026 31027	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.411 67.411 67.411 67.411 67.411 67.411 59.530 59.535 59.540 59.535 59.540 59.537 59.538 52.2283 52.2283 52.288 44.798 44.802 44.802	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.860 228.787 228.808 227.052 227.837 228.808 229.302 226.377 227.102 227.936 228.847	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4549 14.4549 14.43398 14.3491 14.3377 14.3236 14.3072 14.2563 14.2671 14.2563 14.2418 14.2275 14.2007 14.1488 14.1351 14.1020	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085 .59011 .80221 1.04705 1.32499 .80240 1.04748 1.04746 1.32550 1.47734 .59026 .80240 1.32550	.11910 .11759 .11778 .11484 Experimental Themail Conductivity W/m.K .16955 .16975 .16973 .16901 .16967 .16927 .16921 .16891 .16927 .16921 .16494 .16595 .16600 .16551 .16501 .16284 .16288 .16228 .16228 .16228 .16228 .16379 .15876 .15876 .15876 .15810 .15791	.013 .008 .005 .003 .011 .007 .005 .009 .006 .004 .003 .019 .011 .007 .005 .003 .011 .007 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16993 .16993 .16921 .16903 .16782 .16513 .16504 .16599 .16538 .16473 .16304 .16275 .16275 .16227 .16215 .16145 .16130 .15885 .15848	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.046344755360638075757573495586807962
37049 37050 37051 37052 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31020 31022 31024 31025 31026 31027 31028	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.411 67.411 67.411 67.410 67.410 67.410 67.411 59.530 59.537 59.538 52.288	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.860 228.7860 228.787 227.887	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4638 14.4549 14.4309 14.4173 14.3398 14.3377 14.3236 14.3377 14.2563 14.2671 14.2563 14.2671 14.2563 14.2671 14.2563 14.2671 14.2671 14.2757 14.2097 14.1688 14.1351 14.1193 14.1193 14.1193 14.1193 14.1193 14.1193 14.1193 14.1193 14.1193 14.1193 14.1193 14.1193 14.1193	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 69214 .92066 1.18196 1.47646 .41085 .59011 .80221 1.04705 1.32499 .41101 .59014 .80234 1.04746 1.32550 1.47734 .59026 .80240 1.047734 .59026 .80240	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16967 .16967 .16921 .16921 .16817 .16921 .16817 .16595 .16600 .16551 .16595 .16600 .16551 .16595 .16600 .16551 .16595 .16600 .16551 .16596 .16284 .16284 .16284 .16286 .16286 .16286 .16286 .163876 .15849 .15876 .15849 .15810 .15791 .15562	.013 .008 .005 .003 .011 .007 .005 .009 .006 .004 .003 .019 .007 .005 .003 .011 .007 .005 .003 .011 .007	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16993 .16993 .16993 .16993 .16903 .16782 .16513 .16504 .16599 .16538 .16473 .16538 .16473 .16304 .16275 .16275 .16227 .16215 .16130 .15885 .15848 .15796 .15764	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.547553606380757349558680798680796295
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022 31023 31024 31025 31026 31027 31028 31029	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414 67.411 67.410 67.410 67.410 67.411 59.530 59.535 59.537 59.537 59.538 52.268 52.278 52.283 52.283 52.283 52.283 52.283 52.288 44.800 44.802 38.291	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.496 225.496 227.345 228.136 229.207 225.816 226.423 227.071 227.860 228.784 225.667 226.423 227.052 227.837 228.808 229.302 226.377 226.263 227.052 227.837 228.808 229.306 229.307 225.408	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4639 14.4633 14.4309 14.4337 14.3377 14.326 14.32671 14.2563 14.2671 14.2563 14.275 14.2097 14.1020 14.1020 14.0624 14.0503	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .92066 1.18196 .69214 .92066 1.18196 .69214 .92066 1.18196 .147646 .41085 .59011 .80221 1.04765 1.32499 .41101 .59014 1.04746 1.32587 .59026 .80240 1.04748 1.32587 .59026	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16977 .16927 .16921 .16927 .16921 .16921 .16921 .16595 .16600 .16551 .16501	.013 .008 .005 .003 STAT .011 .007 .005 .009 .015 .009 .011 .007 .005 .003 .019 .011 .007 .005 .003 .019 .011 .007	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16599 .16538 .16473 .16304 .1627 .16215 .16145 .16145 .16145 .16145 .16145 .16145 .16145 .16145 .1615796 .15764 .15579	1.90 1.05 1.7222 Conductivity deviation from correlation percent 764480409287 -1.0463447553606380757553606380757555868077868079629566
37049 37050 37051 37052 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31020 31022 31024 31025 31026 31027 31028	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.411 67.411 67.411 67.410 67.410 67.410 67.411 59.530 59.537 59.538 52.288	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.860 228.7860 228.787 227.887	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4639 14.4633 14.4309 14.4337 14.3377 14.326 14.32671 14.2563 14.2671 14.2563 14.275 14.2097 14.1020 14.1020 14.0624 14.0503	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .92066 1.18196 .69214 .92066 1.18196 .69214 .92066 1.18196 .147646 .41085 .59011 .80221 1.04765 1.32499 .41101 .59014 1.04746 1.32587 .59026 .80240 1.04748 1.32587 .59026	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16977 .16927 .16921 .16927 .16921 .16921 .16921 .16595 .16600 .16551 .16501	.013 .008 .005 .003 STAT .011 .007 .005 .009 .015 .009 .011 .007 .005 .003 .019 .011 .007 .005 .003 .019 .011 .007	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16599 .16538 .16473 .16304 .1627 .16215 .16145 .16145 .16145 .16145 .16145 .16145 .16145 .16145 .1615796 .15764 .15579	1.90 1.05 1.7222 Conductivity deviation from correlation percent 764480409287 -1.0463447553606380757553606380757555868077868079629566
37049 37050 37051 37052 31005 31006 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31015 31016 31017 31018 31019 31020 31021 31022 31024 31025 31026 31027 31028 31029 31030	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414 67.411 67.411 67.410 67.410 67.410 59.530 59.535 59.540 59.537 59.537 59.538 52.268 52.278 52.283 52.293	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.456 226.628 227.345 228.186 229.207 225.816 226.423 227.071 227.860 228.784 225.667 226.263 227.071 227.837 227.837 228.808 229.302 226.377 227.936 228.8087 227.936 228.8087 227.936 228.8087 227.936 228.8087 227.936 228.8087 227.936 228.8087 227.936	12.5150 12.4915 12.4283 12.4283 12.4283 14.4367 14.4492 14.4493 14.4433 14.4433 14.4399 14.3599 14.3377 14.3377 14.3373 14.2563 14.2563 14.2671 14.2563 14.275 14.2097 14.1488 14.1351 14.1193 14.1020 14.0624 14.0503 14.0337	.38732 .57679 .80391 .006900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 .69214 .92066 1.477646 .41085 .59011 .80221 1.04721 1.04746 1.32590 1.47734 .59024 .80240 1.04746 1.32587 .41099 .59041 .80241	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16901 .16967 .16927 .16921 .16927 .16921 .16595 .16600 .16555 .16501 .16555 .16501 .16284 .16288 .16228 .16228 .16172 .16164 .15849 .15849 .15849 .15849 .15849 .15849 .15849 .15849 .15849 .15849 .15849 .15849 .15849 .15849 .15862 .15875 .15509	.013 .008 .005 .003 .011 .007 .005 .009 .006 .004 .003 .019 .011 .007 .003 .019 .003 .019 .003 .019 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16999 .16897 .16921 .16903 .16782 .16513 .16604 .16599 .16538 .16473 .16304 .16275 .16227 .16215 .16145 .16130 .15885 .15848 .15796 .15764 .15779 .15583 .15505	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634476 -1.54755360638075536063807575757575757575
37049 37050 37051 37052 31002 31003 31004 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022 31024 31025 31026 31027 31028 31029 31030 31031	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.411 67.411 67.411 67.411 67.411 59.530 59.535 59.540 59.535 59.540 59.535 59.540 59.538 52.2283	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 229.207 225.816 229.207 225.816 229.207 225.816 227.071 227.837 227.837 228.808 229.302 227.936 228.847 227.936 228.847 227.936 228.847 227.936 228.847 227.999	12.5150 12.4915 12.4283 12.4283 12.4283 12.4283 14.44219 14.4638 14.4638 14.4638 14.4337 14.3989 14.3491 14.3377 14.3236 14.3236 14.3275 14.2671 14.2563 14.2671 14.2671 14.275 1	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 .41085 .59011 .80221 1.04766 1.32590 1.32499 .41101 .59014 .80234 1.04746 1.32550 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026	.11910 .11759 .11778 .11484 Experimental Themail Conductivity W/m.K .16955 .16975 .16973 .16901 .16967 .16927 .16921 .16891 .16927 .16921 .16891 .16595 .16600 .16551 .16501 .16284 .16284 .16228 .16228 .16172 .16164 .15876 .15849 .15810 .15791 .15562 .15575 .15509 .15481	.013 .008 .005 .003 .011 .007 .005 .009 .006 .004 .003 .019 .011 .007 .005 .003 .011 .007 .003 .011 .007 .003 .011 .007	.11922 .11763 .11771 .11466 Ad Justed Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16993 .16993 .16921 .16903 .16782 .16513 .16604 .16599 .16538 .16473 .16304 .16275 .16227 .16215 .16145 .16130 .15885 .15848 .15796 .15764 .15579 .15583 .15505	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634475536063607575757349558680796295668175
37049 37050 37051 37052 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022 31024 31025 31026 31027 31028 31029 31030 31031 31032	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.411 67.411 67.411 67.410 67.410 67.410 67.411 59.530 59.537 59.536 52.283 52.288 52.277 52.288 52.283 52.288 52.299 53.88 52.299 53.88 52.299 53.88 53.89 53.89 53.89 53.89 54.	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.860 228.7860 228.787 228.887 228.887 227.071 227.880 227.072 227.880 227.072 227.880 227.073 228.8847 225.667 226.408 227.999 228.961	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4549 14.433 14.4398 14.3988 14.3591 14.3377 14.3236 14.3271 14.2275 14.2671 14.2275 14.2077 14.1488 14.1351 14.1030 14.1193 14.1030 14.0193 14.0005	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085 .59011 .80221 1.04705 1.32499 .41101 .59014 .80234 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04764 1.04764 1.04764 1.04764 1.04764 1.04764 1.04764 1.04764	.11910 .11759 .11778 .11484 Experimental Themail Conductivity W/m.K .16955 .16975 .16975 .16967 .16967 .16921 .16927 .16921 .16817 .16494 .16595 .16600 .16551 .16500 .165000 .165000 .165000 .165000 .165000 .165000 .165000 .16	.013 .008 .005 .003 .011 .007 .005 .009 .004 .007 .005 .003 .019 .007 .005 .003 .011 .007 .005 .003 .011 .007 .005 .003 .011 .007 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16993 .16993 .16991 .16599 .16513 .16604 .16599 .16513 .16604 .16599 .16538 .16473 .16304 .16275 .16227 .16215 .16145 .16145 .16130 .15885 .15848 .15796 .15764 .15579 .15583 .15505 .15467 .15417	1.90 1.05 1.7222 Conductivity deviation from correlation percent 764480409287 -1.04634476 -1.5475536063807573495545868079629566817567
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022 31024 31025 31026 31027 31028 31029 31030 31031 31032 31035	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.411 67.411 67.411 67.411 67.411 59.530 59.535 59.540 59.535 59.540 59.535 59.540 59.538 52.2283	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 229.207 225.816 229.207 225.816 229.207 225.816 227.071 227.837 227.837 228.808 229.302 227.936 228.847 227.936 228.847 227.936 228.847 227.936 228.847 227.999	12.5150 12.4915 12.4613 12.4283 Density moi/L 14.4492 14.4367 14.4638 14.4549 14.433 14.4398 14.3988 14.3591 14.3377 14.3236 14.3271 14.2275 14.2671 14.2275 14.2077 14.1488 14.1351 14.1030 14.1193 14.1030 14.0193 14.0005	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 .41085 .59011 .80221 1.04766 1.32590 1.32499 .41101 .59014 .80234 1.04746 1.32550 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026 1.47734 .59026	.11910 .11759 .11778 .11484 Experimental Themail Conductivity W/m.K .16955 .16975 .16973 .16901 .16967 .16927 .16921 .16891 .16927 .16921 .16891 .16595 .16600 .16551 .16501 .16284 .16284 .16228 .16228 .16172 .16164 .15876 .15849 .15810 .15791 .15562 .15575 .15509 .15481	.013 .008 .005 .003 .011 .007 .005 .009 .006 .004 .003 .019 .011 .007 .005 .003 .011 .007 .003 .011 .007 .003 .011 .007	.11922 .11763 .11771 .11466 Ad Justed Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16993 .16993 .16921 .16903 .16782 .16513 .16604 .16599 .16538 .16473 .16304 .16275 .16227 .16215 .16145 .16130 .15885 .15848 .15796 .15764 .15579 .15583 .15505	1.90 1.05 1.7222 Conductivity deviation from correlation percent764480409287 -1.04634475536063607575757349558680796295668175
37049 37050 37051 37052 Run Pt. 31002 31003 31004 31005 31006 31007 31008 31009 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022 31024 31025 31026 31027 31028 31029 31030 31031 31032 31035	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.413 67.414 67.411 67.410 67.410 67.411 67.411 59.530 59.535 59.537 59.537 59.538 52.268 52.278 52.283 52.299 38.299 38.299 38.299 38.299 38.299 38.301 30.901	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.496 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.860 228.784 225.667 226.263 227.052 227.837 228.808 229.302 226.403 227.052 227.837 228.808 229.307 225.762 227.837 228.808 229.307 225.762 227.837 228.808 229.307 227.936 228.7652 227.936 227.936 227.936 228.9408 227.261 227.999 228.9901 226.746	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4639 14.4398 14.4399 14.3599 14.3377 14.3236 14.3072 14.2671 14.2563 14.2077 14.2563 14.3072 14.3072 14.3072 14.3072 14.3073 14.307	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33346 .49650 .69214 .92066 1.18196 .69214 .92066 1.18196 .18196 .147646 .41085 .59011 .80221 1.04765 1.32597 .41101 .59014 .80234 1.04746 1.32587 .59026 .80240 1.04748 1.32587 .59041 .80241 1.04764 1.32587 .69320	.11910 .11759 .11778 .11484 Experimental Thermal Conductivity W/m.K .16955 .16975 .16975 .16967 .16967 .16952 .16891 .16927 .16921 .16817 .16494 .16595 .16600 .16551 .16502 .16502 .16	.013 .008 .005 .003 STAT .011 .007 .005 .009 .015 .009 .011 .007 .005 .003 .019 .011 .007 .005 .003 .019 .011 .007 .005 .003 .009 .001 .007 .005 .003 .009 .001 .005 .009 .006 .007 .007 .007 .007 .007 .007 .007	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m. K .16967 .16975 .16859 .16873 .16969 .16897 .16921 .16903 .16782 .16513 .16604 .16538 .16473 .16538 .16473 .16304 .1627 .16215 .16145 .16145 .16145 .16145 .16145 .16145 .161599 .15885 .15848 .15796 .15764 .15579 .15583 .15505 .15467 .15417 .15146	1.90 1.05 1.7222 Conductivity deviation from correlation percent 764480409287 -1.0463447553606380755555495586807962956681756761
37049 37050 37051 37052 31005 31006 31007 31008 31009 31010 31011 31012 31013 31014 31015 31016 31017 31018 31019 31020 31021 31022 31024 31025 31026 31027 31028 31029 31030 31031 31032	3.856 3.858 3.862 3.864 Pressure MPa 67.411 67.411 67.411 67.411 67.410 67.410 67.410 67.411 59.530 59.537 59.536 52.283 52.288 52.277 52.288 52.283 52.288 52.299 53.88 52.299 53.88 52.299 53.88 53.89 53.89 53.89 53.89 54.	259.723 260.577 261.674 262.861 Temperature K 226.290 227.015 227.870 228.719 225.440 225.956 226.628 227.345 228.136 229.207 225.816 226.423 227.071 227.860 228.7860 228.787 228.887 228.887 227.071 227.880 227.072 227.880 227.072 227.880 227.073 228.8847 225.667 226.408 227.999 228.961	12.5150 12.4915 12.4613 12.4283 Density mol/L 14.4492 14.4367 14.4638 14.4639 14.4398 14.4399 14.3599 14.3377 14.3236 14.3072 14.2671 14.2563 14.2077 14.2563 14.3072 14.3072 14.3072 14.3072 14.3073 14.307	.38732 .57679 .80391 1.06900 Power W/m .59031 .80240 1.04721 1.32506 .33344 .49650 .69214 .92066 1.18196 1.47646 .41085 .59011 .80221 1.04705 1.32499 .41101 .59014 .80234 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04746 1.04764 1.04764 1.04764 1.04764 1.04764 1.04764 1.04764 1.04764	.11910 .11759 .11778 .11484 Experimental Themail Conductivity W/m.K .16955 .16975 .16975 .16967 .16967 .16921 .16927 .16921 .16817 .16494 .16595 .16600 .16551 .16500 .165000 .165000 .165000 .165000 .165000 .165000 .165000 .16	.013 .008 .005 .003 .011 .007 .005 .009 .004 .007 .005 .003 .019 .007 .005 .003 .011 .007 .005 .003 .011 .007 .005 .003 .011 .007 .005 .003	.11922 .11763 .11771 .11466 Adjusted Thermal at a nominal Temperature of 227 K W/m.K .16967 .16975 .16859 .16873 .16993 .16993 .16993 .16991 .16599 .16513 .16604 .16599 .16513 .16604 .16599 .16538 .16473 .16304 .16275 .16227 .16215 .16145 .16145 .16130 .15885 .15848 .15796 .15764 .15579 .15583 .15505 .15467 .15417	1.90 1.05 1.7222 Conductivity deviation from correlation percent 764480409287 -1.04634476 -1.5475536063807573495549554975868079629566817567

31037	30.881	228.530	13.8872	1.18421	.15065	.003	•15045	70
31038	23.806	225.571	13.8243		.14794	.023	.14813	92
31039	23.803	226.127	13.8124		.14728	.012	.14739	-1.16
31040	23.806	226.823	13.7976		.14717	.008	.14719	98
31041	23.808	227.630	13.7805		.14672	.005	.14664	99
31042	23.808	228.670		1.18401	.14666	•003	•14645	65
31043	16.024	225.557	13.6759	.33381	•14297	.022	.14315	-1.19
31044	16.026	226.145	13.6627		.14251	.012	•14262	-1.28
31045	16.026	226.856	13.6467		.14251	.008	.14253	-1.00
31046	16.030	227.832	13.6248	.92233	.14196	.005	.14186	-1.01
31047	16.033	228.749	13.6042	1.18457	.14201	.003	.14180	61
31048	9.604	225.376	13.5449		•13800	.031	.13819	-1.96
31049	9.607	225.882	13.5329	•41157	.13828	.016	.13841	-1.54
31050	9.606	226.623	13.5154	.59130	.13806	.009	.13810	-1.39
31051	9.609	227.423	13.4965	.80397	.13798	• 005	.13793	-1.11
31052	9.610	228.365		1.04937	.13790	•004	•13774	78
31053	2.883	225.432	13.3866		•13409	• 026	•13427	-1.50
31054	2.884	225.986	13.3727		.13414	.015	.13425	-1.22
31055	2.886	226.589	13.3575		•13384	.009	•13389	-1.17
31056	2.888	227.474	13.3351	.80411	.13330	•006	•13325	-1.18
31057	2.888	228.446		1.04963	•13307	.004	•13291	92
31058	2.889	228.986	13.2968	1.18497	•13293	.003	.13271	78
								0
					Experimental Thermal		Adjusted Thermal	
Run Pt.	Pressure	Temperature	Density	Davis		STAT	at a nominal Temperature of 196 K	deviation from correlation
KUII PC.	MPa	K	mol/L	Power W/m	Conductivity W/m.K	SIAI	W/m.K	percent
	nra	N.	MUITE	W / III	W / W + IX		#/ III ◆ N	percent
36001	67.881	196.026	14.9818	.78257	.18567	.007	•18566	08
36002	67.899	195.213	14.9963		.18656	.016	.18672	.18
36003	67.902	195.410	14.9928		.18634	.011	.18646	• 12
36004	67.908	196.445	14.9747		.18592	.007	.18583	. 16
36005	67.914	195.776	14.9865		.18641	.009	.18646	. 25
36006	67.916	197.248		1.12637	.18534	.005	.18509	• 06
36007	61.052	195.283	14.9241	.50124	.18301	.016	.18315	20
36008	61.057	195.773	14.9153	.68147	.18342	.010	.18347	•16
36009	61.058	195.412	14.9039	.88970	.18274	.007	.18266	04
36010	61.062	197.150	14.8906	1.12638	.18240	.005	•18217	02
36011	61.069	197.606	14.8825	1.25526	.18232	•004	•18200	• 06
36012	53.545	195.266	14.8426		.18078	.014	•18092	•31
36013	53.553	195.704	14.8346		.17952	.010	.17958	26
36014	53.565	196.493	14.8201	.88944	.17958	•007	•17949	00
36015	53.570	197.263		1.12623	.17913	.004	.17889	03
36016	53.578	197.585		1.25490	.17889	.004	.17859	08
36017	46.473	194.948	14.7672		.17762	.020	•17782	.19
36018	46.480	195.395	14.7588	.58834	. 17692	.012	•17703	07
36019	46.484	195.099	14.7455	.78288	•17647	.008	•17645	12 11
36020	46.489 46.494	196.779		1.00551	.17612	•005	•17598 17520	19
36021 36022	38.784	197.677 194.988	14.6728	1.25669 .42203	.17551 .17293	.003	•17520 •17311	48
36023	38.787	195.514	14.6625		.17302	.012	.17311	26
36024	38.795	196.107	14.6510		.17284	.008	.17282	18
36025	38.803	196.868		1.00578	.17246	.005	.17231	17
36026	38.812	197.782		1.25712	•17179	.003	.17148	27
36027	30.800	194.734	14.5738	.34897	.17023	.025	.17045	•07
36028	30.803	195.167	14.5651	.50166	.16998	.014	.17012	•07
36029	30.805	195.844	14.5513		.16954	.009	.16957	• 03
36030	30.808	196.543	14.5372		.16884	.005	.16875	15
36031	30.812	197.509	14.5176	1.12810	.16842	.004	.16817	08
36032	22.911	194.735	14.4633	.34928	.16589	.024	.16610	17
36033	22.918	195.281	14.4519	.50189	.16643	.014	•16655	.34
36034	22.921	195.960	14.4376	.68251	.16500	.009	.16501	29
36035	22.924	196.655	14.4229		.16473	.005	.16462	21
36036	22.926	197.423		1.12861	•16437	.004	.16414	16
36037	16.394	194.567	14.3689		.16315	.033	.16338	•17
36038	16.394	195.058	14.3581		•16225	.018	•16240	20
36039	16.398	195.523	14.3480		•16237	.011	.16244	• 04
36040	16.400	196.331	14.3304		•16150	•006	•16145	21
36041	16.404	197.129		1.00619	.16128	.005	.16111	05
36042	16.406	197.466		1.12848	.16103	.004	.16080	08
36043	9.045	194.614	14.2486		•15942	.032	•15963	• 38
36044	9.044	195.106	14.2373		.15829	.017	•15842 15747	14
36045	9.045	195.609	14.2258		.15761	.009	•15767	38 21
35046	9.045	196.354	14.2087		.15741	• 007	•15736	21 16
35047	9.045	197.105		1.00629	•15703	•005	•15687 •15644	23
35048 36049	9.047 1.947	197.543 194.588	14.1235	1.12842	•15666 •15546	.004 .031	•15566	•49
36050	1.949	195.095	14.1233		•15410	.017	•15423	18
36051	1.950	195.614	14.0989		.15400	.017	•15405	03
36052	1.952	196.334	14.0816		.15353	.007	.15348	04
36053	1.955	197.248		1.00784	.15295	.004	•15278	04
36054	1.962	197.629		1.13019	.15264	. 304	•15242	09

Run Pt.	Pressure MPs	Temperature K	Oensity #01/L	Power W/m	Experimental Thermal Conductivity W/m.K	STAT	Adjusted Thermal st a nominal Temperature of 170 K W/m.K	Conductivity deviation from correlation percent
		1/0 100	15 //04	20540	1002/	027	10076	48
33001 33002	67.127 67.121	168.188 168.522	15.4695	.29568	.19826 .20009	.037 .021	•19874 •20048	•52
33002	67.120	168.914	15.4565	.57786	.19885	.013	.19914	00
33004	67.114	169.452	15.4468	.75458	.19868	.009	.19882	. 04
33005	67.111	170.019	15.4366	.95562	.19845	.006	.19845	.07
33006	67.111	170.833		1.18085	.19829	.005	.19807	.18
33007	67.108	171.138		1.30263	.19798	.004	.19769	•10
33008	59.259	168.351 168.727	15.3967	.35728	•19475	.024	.19517 .19578	76
33009 33010	59.258 59.264	169.099	15.3897	.49834 .66304	.19545 .19594	.014	.19575	31 .04
33010	59.267	169.924	15.3578	.85224	.19539	.007	.19541	04
33012	59.265	170.420	15.3587		.19526	.005	.19515	.02
33013	59.273	171.148	15.3454	1.30271	.19484	.004	.19455	01
33014	51.755	168.275	15.3279	.35732	.19390	.025	•19433	• 24
33015	51.757	168.737	15.3193	.49836	.19350	.015	.19381	•16
33016 33017	51.752 51.753	169.257 169.787	15.3094	.56332 .85221	.19323 .19274	.011	.19341 .19279	•16 •05
33018	51.747	170.418		1.06533	.19272	•005	•19212	06
33019	51.764	171.196		1.30335	.19190	.004	.19161	02
33020	44.330	168.303	15.2544	.35731	.19064	.325	•19105	• Q 8
33021	44.338	168.750	15.2459	.49838	.19042	•015	.19072	• 0 8
33022	44.344	169.233	15.2366	.65306	.18993	.010	.19011	04
33023	44.344	169.831	15.2250	.85202	.18989	.007	.18993	•10
33024 33025	44.354 44.351	170.494 171.224	15.2123 15.1982		.18910 .18877	.005	•18898 •18848	-•13 -•10
33026	37.043	168.181	15.1814	.35707	.18748	.026	.18790	05
33027	37.054	168.649	15.1722	.49815	.18754	.015	.18785	•10
33028	37.071	169.289	15.1597	.66316	.18736	.010	.18752	.19
3 30 2 9	37.078	169.838	15.1489	.85332	.18631	.007	•18635	22
33030	37.078	170.557		1.05747	.18616	.005	.18603	09
33031	37.092	171.311		1.30452	.18547	.004	.18517	24
33032 33033	29.244 29.257	168.692 169.185	15.0854 15.0755	.49892 .66390	.18423 .18334	.015 .010	•18452 •18352	•12 - •22
33034	29.252	169.912	15.0607	.85301	.18282	.007	.18284	28
3 3 0 3 5	29.270	170.398	15.0508		.18283	.005	.18274	13
33036	29.285	170.870	15.0413		.18221	.004	.18202	33
33037	21.866	158.582	15.0015	.42523	.18C68	.017	.18098	07
33038	21.874	169.045	14.9918	.57848	.18037	.012	.18057	10
33039 33040	21.881 21.898	169.589 170.209	14.9804	.75559 .95695	•17998 •17958	•008 •005	•18007 •17954	14 17
33041	21.906	170.965		1.18252	.17912	.004	•17937	19
33042	14.907	168.591	14.9148	.42518	.17779	.019	.17808	.10
33043	14.928	169.062	14.9048	.57822	.17696	.011	•17715	21
33044	14.935	169.633	14.8924	.75518	.17653	.007	.17660	26
33045	14.950	170.298	14.8781	.95638	.17629	.006	•17623	18
33046 33047	14.962 7.748	171.038 168.180	14.8621	.29605	.17571 .17387	.004	•17550 •17423	26 31
33048	7.758	168.524	14.8214	.42563	.17416	.017	.17445	02
33049	7.771	169.025	14.8102	.57901	.17409	.011	.17428	•11
33050	7.781	169.746	14.7941	.75631	.17293	.007	.17298	31
33051	7.793	170.367	14.7802	.95802	.17289	.005	.17282	11
33052		171.165				.004	•17197	24
33053 33054	1.042	168.057	14.7368		•16943	.031	.16980	99 .14
33055	1.041	168.447 168.922	14.7165			.018	.17138 .17061	08
33056	1.041		14.7001				.16992	15
33057	1.041	170.251	14.6854	.95825	.16920	.005	.16915	30
33058	1.041	171.053	14.5655	1.18431	.16865	.034	.16846	33
					Experimental		Adjusted Therwal	
Run Pt-	Pressure	Temperature	Density	Power	Thermal Conductivity	STAT	at a nominal Temperature of 140 K	deviation from correlation
	MPa	К	mol/L		W/m.K	3141	W/m.K	percent
34001	66.728	138.618	16.0035			.031	.21351	.28
34002	66.728		15.9976			.017	.21391	• 58
34003	66.741		15.9882			.013	.21345	.56
34004 34005	66.744 66.744	139.824 140.286	15.9815			.005	.21299 .21305	.47
34006	66.745		15.9619			.004	.21243	. 1
34007	59.962		15.9510			.030	.21195	.60
34008	59.962	139.030	15.9463	.45990	.21139	.019	.21175	.60
34009	59.973		15.9387			.013	.21065	. 23
34010 34011	59.981 59.984		15.9316			•008	.21145	.75
34012	59.982		15.9227			.004	.21019 .20968	.33
34013	51.482		15.8869			.030	.20948	.72
34014	51.487	138.894	15.8839	.45970	.20888	.019	.20928	.60
3 4015	51.490	139.321	15.8758	.60059	.20816	.013	.20840	. 4 2

34016	51.487	139.865	15.8653	.76092	.20809	.009	.20814	.51
		140.319						
34017	51.500		15.8567	.94029	.20749	•007	•20738	• 32
34018	51.507	140.921	15.8453	1.13973	.20728	•005	•20696	•34
34019	43.276	138.725	15.8211	.33830	.20502	.029	•20546	•10
34020	43.271	138.924	15.8172	.46042	.20620	.019	.20657	•72
34021	43.268	139.369	15.8084	•60160	• 20495	.012	•20517	•21
34022	43.268	139.814	15.7997	.76231	.20516	•009	•20522	•41
34023	43.272	140.416	15.7879	.94308	.2050 7	.006	• 20493	• 51
34024	43.276	141.033		1.14107	. 20466	.005	.20431	.45
34026	35.897	139.049	15.7523	.46016	.20370	.018	.20402	•78
34027	35.899	139.469	15.7439	•60116	.20340	.012	•20358	•73
34028	35.912	139.989	15.7335	.76147	.20244	.009	•20244	•38
34029	35.924	140.409	15.7252	.94079	.20215	.005	•20201	• 33
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34030	35.926	140.985		1.14072	.20158	.004	.20125	.19
34031	29.307	138.706	15.7009	.33841	.20167	.029	•20210	• 8 6
34032	29.307	138.981	15.6953	.46051	.20154	.018	•20188	• 86
34033	29.317	139.463	15.6854	.60198	.20060	.011	.20078	.51
34034	29.320	139.943	15.6756	.76264	•19975	.008	•19977	•21
3 4 0 3 5	29.320	140.503	15.6641	•94333	.20007	• 006	•19991	• 51
34036	29.327	141.050	15.6529	1.14363	•19932	.005	•19898	.27
34037	22.775	138.679	15.6410	.33855	.19730	.028	.19773	13
34038	22.775	139.156	15.6310	.46065	.19854	.018	.19881	•62
34039	22 .7 97	139.494	15.6241	.60170	.19830	.012	•19846	• 58
34040	22 .7 97	139.876	15.6161	.76208	.19728	.008	.19732	.16
34041	22.804	140.492	15.6032	.94269	.19766	.005	•19750	•51
				1.14261				
34042	22.807	141.080			.19666	• 005	•19632	•16
3 40 4 3	15.268	138.767	15.5660	.33861	•19690	.026	•19729	1.14
34044	15.253	139.119	15.5583	.46068	.19638	.018	•19665	• 97
34045	15.255	139.508	15.5499	.60185	.19546	.012	•19561	• 61
34046	15.252	140.007	15.5391	.76248	.19451	.008	.19451	•26
34047	15.253	140.601	15.5262	.94249	•19409	•006	•19391	•21
34048	15.256	141.203	15.5132	1.14326	.19389	.004	.19353	.27
34049	8.458	139.716	15.4971	.33865	.19396	.028	.19435	1.02
34050	8.469	139.054	15.4897	. 46059	•19243	.317	•19272	• 32
34051	8.476	139.447	15.4811	.60173	•19210	.012	•19227	• 26
34052	8.476	140.005	15.4687	.76260	.19228	.007	•19228	.51
3 40 5 3	8.493	140.469	15.4585	.94276	.19188	.006	.19174	. 44
34054	8.496	141.215		1.14337	•19108	•005	•19072	•23
3 4 0 5 5	2.585	138.787	15.4319	.33893	•19094	.027	•19130	•73
34056	2.585	139.170	15.4232	.46102	.18984	.016	•19008	. 27
34057	2.592	139.504	15.4156	.60222	.19034	.010	.19049	•63
34058						.007		.53
	2.595	140.055	15.4031	.76322	.18983		.18981	
34059	2.604	140.055 140.600	15.4031	.94347	.18931	.006	.18914	•42
34059	2.604	140.600	15.3908	.94347	.18931	.006	.18914	•42
			15.3908					
34059	2.604	140.600	15.3908	.94347	.18931 .18899	.006	.18914 .18863	•42 •45
34059	2.604	140.600	15.3908	.94347	.18931 .18899	.006	•18914 •18863 Adjusted Thermai	.42 .45 Conductivity
34059 34060	2.604	140.600 141.265	15.3908	.94347 1.14450	.18931 .18899 Experimental Thermal	.005	.18914 .18863 Adjusted Thermai at a nominai	.42 .45 Conductivity deviation
34059	2.604	140.600	15.3908	.94347	.18931 .18899	.006	•18914 •18863 Adjusted Thermai	.42 .45 Conductivity
34059 34060	2.604 2.610	140.600 141.265 Temperature	15.3908 15.3757 Density	.94347 1.14450 Power	.18931 .18899 Experimental Thermal Conductivity	.005	.18914 .18863 Adjusted Thermai at a nominal Temperature of 112 K	.42 .45 Conductivity deviation from correlation
34059 34060	2.604 2.610	140.600 141.265	15.3908 15.3757	.94347 1.14450	.18931 .18899 Experimental Thermal	.005	.18914 .18863 Adjusted Thermai at a nominai	.42 .45 Conductivity deviation
34059 34060 Run Pt.	2.604 2.610 Pressure MPa	140.600 141.265 Temperature K	15.3908 15.3757 Density moi/L	.94347 1.14450 Power W/m	.18931 .18899 Experimental Thermal Conductivity W/m.K	.006 .004	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K	.42 .45 Conductivity deviation from correlation percent
34059 34060 Run Pt. 35002	2.604 2.610 Pressure MPa 65.496	140.600 141.265 Temperature K 111.560	15.3908 15.3757 Density moi/L 16.4969	.94347 1.14450 Power W/m	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052	.005 .004 STAT	.18914 .18863 Adjusted Thermai at a nominal Temperature of 112 K W/m.K	.42 .45 Conductivity deviation from correlation percent 19
34059 34060 Run Pt.	2.604 2.610 Pressure MPa	140.600 141.265 Temperature K	15.3908 15.3757 Density moi/L	.94347 1.14450 Power W/m	.18931 .18899 Experimental Thermal Conductivity W/m.K	.006 .004	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K	.42 .45 Conductivity deviation from correlation percent
34059 34060 Run Pt. 35002 35003	2.604 2.610 Pressure MPa 65.496 65.500	140.600 141.265 Temperature K 111.560 111.859	15.3908 15.3757 Density moi/L 16.4969 16.4913	.94347 1.14450 Power W/m .45484 .57629	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068	.005 .004 STAT .018 .012	.18914 .18863 Adjusted Thermai at a nominal Temperature of 112 K W/m.K	.42 .45 Conductivity deviation from correlation percent 19 09
34059 34060 Run Pt. 35002 35003 35004	2.604 2.610 Pressure MPa 65.496 65.500 65.503	140.600 141.265 Temperature K 111.560 111.859 112.251	15.3908 15.3757 Density moi/L 16.4969 15.4913 16.4840	.94347 1.14450 Power W/m .45484 .57629 .71290	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006	.005 .004 STAT .018 .012 .010	.18914 .18863 Adjusted Thermai at a nominal Temperature of 112 K W/m.K .22077 .22076 .21992	.42 .45 Conductivity deviation from correlation percent 19 09 33
34059 34060 Run Pt. 35002 35003 35004 35005	2.604 2.610 Pressure MPa 65.496 65.500 65.503 65.516	140.600 141.265 Temperature K 111.550 111.859 112.251 112.467	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019	.005 .004 STAT .018 .012 .010	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992	.42 .45 Conductivity deviation from correlation percent 19 09 33 25
34059 34060 Run Pt. 35002 35003 35004 35005 35006	2.604 2.610 Pressure MPa 65.496 65.500 65.503 65.516 65.518	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039	.005 .004 STAT .018 .012 .010 .007	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13
34059 34060 Run Pt. 35002 35003 35004 35005	2.604 2.610 Pressure MPa 65.496 65.500 65.503 65.516	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019	.005 .004 STAT .018 .012 .010	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007	2.604 2.610 Pressure MPa 65.496 65.500 65.503 65.516 65.518 58.233	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4800 16.4750 16.4607	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792	.005 .004 STAT .018 .012 .010 .007 .007	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35008	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.518 65.518 58.233 58.232	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.7737 111.160 111.505	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4607 16.4541	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788	.006 .004 STAT .018 .012 .010 .007 .007 .025	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35008 35009	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.518 58.233 58.232	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.46464 16.46464 16.46464	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815	.006 .004 STAT .018 .012 .010 .007 .007 .025 .017	.18914 .18863 Adjusted Thermai st a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35008 35009 35010	2.604 2.610 Pressure MPa 65.496 65.500 65.503 65.516 65.518 58.233 58.232 58.230 58.230	140.600 141.265 Temperature K 111.560 111.859 112.467 112.737 111.160 111.505 111.810	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4607 16.4541 16.44483 16.4417	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796	.006 .004 STAT .018 .012 .010 .007 .007 .025 .011 .009	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35008 35009 35010 35011	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.516 58.233 58.232 58.230 58.220 58.220	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.4483 16.4417 16.4375	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842	.006 .004 STAT .018 .012 .010 .007 .025 .017 .011	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 40
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35008 35009 35010 35011 35012	2.604 2.610 Pressure MPa 65.496 65.500 65.503 65.516 65.518 58.233 58.232 58.230 58.220 58.220 58.220	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.372	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.4483 16.4483 16.44175 16.4375	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .78647 .86435	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796	.006 .004 STAT .018 .012 .010 .007 .007 .025 .011 .009	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35008 35009 35010 35011	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.516 58.233 58.232 58.230 58.220 58.220	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.4483 16.4417 16.4375	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .78647 .86435	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842	.006 .004 STAT .018 .012 .010 .007 .025 .017 .011	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 40
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35010 35010 35011 35012 35012	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.518 58.233 58.230 58.220 58.220 58.220 58.227 58.217	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.46750 16.4647 16.4483 16.4417 16.4340 16.4370 16.4340	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .78647 .86435 .94595	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21844	.006 .004 STAT .018 .012 .010 .007 .007 .025 .017 .011 .009 .008	.18914 .18863 Adjusted Thermai st a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35009 35010 35011 35012 35013 35014	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.232 58.230 58.220 58.217 58.217 58.217	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.372 112.554 112.810 113.018	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.44483 16.4417 16.4375 16.4340 16.4292	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .771263 .78647 .86435 .94595 1.03146	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21842 .21798 .21844	.006 .004 STAT .018 .012 .010 .007 .007 .025 .011 .009 .008 .007 .006	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21769	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35008 35009 35010 35011 35012 35013 35014 35015	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.516 58.233 58.232 58.230 58.220 58.220 58.217 58.217 58.217 58.219 58.209	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.018	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4607 16.4541 16.4483 16.4417 16.4375 16.4340 16.4252 16.4252	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .86435 .94595 1.03146 1.12119	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21844 .21771 .21787	.006 .004 STAT .018 .012 .010 .007 .025 .017 .019 .009 .007	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714	.42 .45 Conductivity deviation from correlation percent19 09 33 25 13 57 55 40 44 21 39 29
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35008 35009 35010 35011 35012 35013 35014 35015 35016	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.516 65.518 58.233 58.230 58.220 58.220 58.2217 58.217 58.217 58.217	140.600 141.265 Temperature K 111.560 111.859 112.251 112.4737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.079 113.279	Density moi/L 16.4969 16.4913 16.4840 16.4860 16.4750 16.4487 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .86435 .94595 1.03146 1.12119 .34792	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21844 .21771 .21777	.006 .004 STAT .018 .012 .010 .007 .025 .017 .011 .009 .007 .006 .005	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21716	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35008 35009 35010 35011 35012 35013 35014 35015	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.516 65.518 58.233 58.230 58.220 58.220 58.2217 58.217 58.217 58.217	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.018	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4607 16.4541 16.4483 16.4417 16.4375 16.4340 16.4252 16.4252	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .86435 .94595 1.03146 1.12119	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21844 .21771 .21787	.006 .004 STAT .018 .012 .010 .007 .025 .017 .019 .009 .007	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714	.42 .45 Conductivity deviation from correlation percent19 09 33 25 13 57 55 40 44 21 39 29
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35009 35010 35011 35012 35012 35013 35014 35015 35016 35016	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.516 58.233 58.232 58.230 58.220 58.220 58.217 58.217 58.217 58.219 58.209	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.279 111.181 111.420	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4875 16.4463 16.44617 16.4340 16.4292 16.4252 16.4252 16.4252 16.4252	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .71263 .78647 .94595 1.03146 1.12119 .34792 .45456	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21814 .21771 .21787 .21772	.006 .004 STAT .018 .012 .010 .007 .007 .017 .011 .009 .008 .007 .006 .005 .005	.18914 .18863 Adjusted Thermai st a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21769 .21714 .21716 .21818	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29
34059 34060 Run Pt. 35002 35003 35006 35007 35008 35009 35010 35011 35012 35013 35014 35015 35016 35017 35018	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.217 58.217 58.217 58.219 58.219 58.209 51.090 51.089	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.279 111.81 113.279	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.44483 16.4417 16.4375 16.4340 16.4292 16.4252 16.4202 16.4151 16.4037	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .771263 .78647 .8643 .94595 1.03146 1.12119 .45456 .57598	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21798 .21845 .21845 .21842 .21796 .21842 .21798 .21844 .21771 .21787 .21772 .21784 .21772	.006 .004 STAT .018 .012 .010 .007 .025 .011 .009 .008 .007 .006 .005 .004 .029 .019	.18914 .18863 Adjusted Thermai st a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21716 .21716 .21818 .21777	.42 .45 Conductivity deviation from correlation percent 1909332513575540442139294636 .20 .1044
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35008 35009 35011 35012 35014 35015 35016 35017 35016 35017	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.516 58.233 58.232 58.230 58.220 58.220 58.217 58.217 58.217 58.219 58.209 51.089 51.089 51.089	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.079 111.181 111.420 111.799 112.152	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4607 16.4541 16.4375 16.4375 16.4340 16.4252 16.4252 16.4257 16.4117 16.4375 16.4375	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .57617 .71263 .78647 .86435 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21844 .21771 .21772 .21774 .21777 .21777	.006 .004 STAT .018 .012 .010 .007 .007 .005 .007 .008 .007 .008 .007 .008 .007	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21777	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 .20 .10
34059 34060 Run Pt. 35002 35003 35004 35007 35008 35009 35010 35011 35012 35013 35014 35015 35016 35017 35018 35019 35020	2.604 2.610 Pressure MPa 65.496 65.500 65.503 65.516 65.518 58.233 58.232 58.230 58.220 58.227 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.219 58.209 51.090 51.087	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.018 113.279 111.181 111.420 111.799 112.152	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4860 16.4750 16.4541 16.4375 16.4375 16.4375 16.4375 16.4292 16.4252 16.4252 16.4252 16.4252 16.4375 16.3969	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .86435 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248 .78636	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21842 .21798 .21844 .21771 .21787 .21772 .21744 .21617	.006 .004 STAT .018 .012 .010 .007 .025 .017 .001 .009 .008 .007 .006 .028 .019 .019 .009 .009	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21787 .21821 .21767 .21769 .21714 .21716 .21716 .21818 .21777 .21628 .21777 .21628 .21603 .21582	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 20 10 44 36 20 44 43 45
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35009 35010 35011 35012 35012 35013 35014 35015 35016 35017 35018 35019 35020 35020	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.220 58.227 58.217 58.217 58.217 58.217 58.219 51.089 51.089 51.089	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.079 111.181 111.420 111.799 112.152	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4671 16.457 16.457 16.4340 16.4252 16.4252 16.4252 16.4202 16.4111 16.4037 16.3969 16.3969	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .57617 .71263 .78647 .86435 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21842 .21771 .21777 .21777 .21777 .21777 .21774 .21617 .21611 .21600 .21600	.006 .004 STAT .018 .012 .010 .007 .007 .005 .007 .008 .007 .008 .007 .008 .007	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21828 .21777 .21828 .21777 .21828 .21769 .21714 .21716 .21818 .21777 .21628 .21582 .21582 .21582	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 .20 .10 44 43 45 45
34059 34060 Run Pt. 35002 35003 35004 35007 35008 35009 35010 35011 35012 35013 35014 35015 35016 35017 35018 35019 35020	2.604 2.610 Pressure MPa 65.496 65.500 65.503 65.516 65.518 58.233 58.232 58.230 58.220 58.227 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.219 58.209 51.090 51.087	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.018 113.279 111.181 111.420 111.799 112.152	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4860 16.4750 16.4541 16.4375 16.4375 16.4375 16.4375 16.4292 16.4252 16.4252 16.4252 16.4252 16.4375 16.3969	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .86435 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248 .78636	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21842 .21798 .21844 .21771 .21787 .21772 .21744 .21617	.006 .004 STAT .018 .012 .010 .007 .025 .017 .001 .009 .008 .007 .006 .028 .019 .019 .009 .009	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21787 .21821 .21767 .21769 .21714 .21716 .21716 .21818 .21777 .21628 .21777 .21628 .21603 .21582	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 20 10 44 36 20 44 43 45
34059 34060 Run Pt. 35002 35003 35006 35007 35008 35010 35011 35012 35014 35015 35016 35017 35018 35019 35020 35021 35021 35022	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.217 58.217 58.217 58.219 58.219 58.209 51.089 51.089 51.089 43.810	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.279 111.181 113.279 111.181 113.279 111.182 112.352 112.352	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.44483 16.4417 16.4375 16.4292 16.4252 16.4252 16.4252 16.4252 16.4252 16.4363 16.4363 16.3934 16.3935 16.3875	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .771263 .78647 .8645 .94595 1.03146 1.12119 .45456 .57598 .71248 .78636 .786416 .786416 .786416	.18931 .18899 Experimental Thermal Conductivity W/m·K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21844 .21771 .21787 .21772 .21744 .21617 .21611 .21600 .21605 .21256	.006 .004 STAT .018 .012 .010 .007 .025 .017 .009 .008 .007 .006 .005 .004 .029 .013 .009 .009 .009	.18914 .18863 Adjusted Thermai st a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21716 .21716 .21716 .21716 .21818 .21777 .21628 .21777 .21628 .21777 .21628 .21576 .21576 .21576	.42 .45 Conductivity deviation from correlation percent 19 09332513575540442139294636 .20 .104443454143
34059 34060 Run Pt. 35002 35003 35004 35007 35008 35009 35010 35011 35012 35014 35015 35016 35017 35016 35019 35020 35020 35021 35022 35022 35023	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.518 58.233 58.232 58.230 58.230 58.220 58.217 58.21	140.600 141.265 Tempersture K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.018 113.279 111.181 111.420 111.799 112.152 112.329 112.329 112.549 111.249 111.609	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.44417 16.4375 16.4375 16.4252 16.4252 16.4252 16.4252 16.4252 16.4251 16.4375 16.3969 16.3934 16.3895 16.3871 16.3600	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .86435 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248 .78636 .86416 .34816 .45526	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22009 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21842 .21771 .21777 .21772 .21774 .21611 .21600 .21605 .21256 .21467	.006 .004 STAT .018 .012 .010 .007 .007 .005 .007 .008 .007 .028 .019 .013 .009 .013 .009 .007	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21777 .21628 .21777 .21628 .21787 .21769 .21714 .21716 .21818 .21777 .21628 .21787 .21628 .21787 .21628 .21787	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 .20 .10 44 43 45 41
34059 34060 Run Pt. 35002 35003 35005 35006 35007 35010 35011 35012 35013 35014 35015 35016 35017 35018 35019 35019 35020 35021 35022 35023 35023	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.518 58.230 58.230 58.220 58.220 58.220 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.209 51.089 51.087 51.089 43.816	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.018 113.279 111.181 111.420 111.799 112.152 112.329 112.329 112.530 111.249 111.609 111.974	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4860 16.4541 16.4541 16.4375 16.4375 16.4252 16.4252 16.4257 16.4111 16.4037 16.4037 16.3969 16.3934 16.3895 16.3895 16.3600 16.3528	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .71263 .78645 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248 .78636 .86416 .34816 .45526 .57718	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22019 .22039 .21792 .21788 .21815 .21776 .21842 .21778 .21814 .21771 .21772 .21774 .21617 .21611 .21600 .21605 .21256 .21467 .21401	.006 .004 .004 .018 .012 .010 .007 .007 .001 .009 .008 .007 .006 .028 .019 .009 .009	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21402	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 36 20 10 44 43 43 45 41 1-27
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35009 35010 35011 35012 35012 35014 35015 35016 35017 35018 35019 35020 35020 35021 35022 35023 35024 35025	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.227 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.209 51.089 51.089 51.089 43.816 43.816	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.279 111.181 111.420 111.799 112.152 112.329 112.530 111.249 111.609 111.974 112.165	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4800 16.4671 16.457 16.4370 16.457 16.4370 16.4252 16.4202 16.4252 16.4202 16.4111 16.4037 16.3969 16.3969 16.3895 16.3895 16.3671 16.3600 16.3528 16.36490	.94347 1.14450 Power W/m .45484 .57629 .71203 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .71263 .78647 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248 .78636 .86416 .34816 .34816 .577718 .71369	.18 931 .18 899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21842 .21771 .21777 .21777 .21777 .21777 .21777 .21774 .21617 .21617 .21600 .21605 .21256 .21467 .21401 .21427	.006 .004 STAT .018 .012 .010 .007 .007 .025 .011 .009 .008 .005 .005 .004 .026 .016 .026 .016 .013	.18914 .18863 Ad Justed Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21409 .21402	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 .20 .10 44 43 45 41 45 41
34059 34060 Run Pt. 35002 35003 35005 35006 35007 35010 35011 35012 35013 35014 35015 35016 35017 35018 35019 35019 35020 35021 35022 35023 35023	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.518 58.230 58.230 58.220 58.220 58.220 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.209 51.089 51.087 51.089 43.816	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.018 113.279 111.181 111.420 111.799 112.152 112.329 112.329 112.530 111.249 111.609 111.974	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4860 16.4541 16.4541 16.4375 16.4375 16.4252 16.4252 16.4257 16.4111 16.4037 16.4037 16.3969 16.3934 16.3895 16.3895 16.3600 16.3528	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .71263 .78645 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248 .78636 .86416 .34816 .45526 .57718	.18931 .18899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22019 .22039 .21792 .21788 .21815 .21776 .21842 .21778 .21814 .21771 .21772 .21774 .21617 .21611 .21600 .21605 .21256 .21467 .21401	.006 .004 .004 .018 .012 .010 .007 .007 .001 .009 .008 .007 .006 .028 .019 .009 .009	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21402	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 36 20 10 44 43 43 45 41 1-27
34059 34060 Run Pt. 35002 35003 35006 35007 35008 35010 35011 35012 35013 35014 35015 35016 35017 35018 35019 35021 35021 35022 35023 35024 35025 35025	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.217 58.217 58.217 58.219 58.217 58.219 58.217 58.219 58.217 58.219 58.209 51.089 51.089 51.089 43.810 43.816 43.816	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 112.372 112.554 112.372 112.554 112.810 113.279 111.81 111.420 113.279 111.181 111.420 111.799 112.152 112.350 111.249 111.609 111.974 112.165 112.9561	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.44375 16.4375 16.4375 16.4292 16.4252 16.4353 16.3671 16.3671 16.3671 16.3671 16.3671 16.3671 16.3671	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .771263 .78647 .8653 .94595 1.03146 1.12119 .44792 .45456 .57598 .71248 .786416 .45526 .57718 .86587	.18 931 .18 899 Experimental Thermal Conductivity W/m·K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21845 .21845 .21842 .21896 .21844 .21771 .21787 .21772 .21784 .21611 .21605 .21656 .21467 .21467 .21427 .21427	.006 .004 .018 .012 .010 .007 .025 .017 .009 .008 .007 .006 .005 .013 .009 .013 .009 .013 .009 .016 .016 .016 .016	.18914 .18863 Ad Justed Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21489 .21402 .21418	.42 .45 Conductivity deviation from correlation percent 19 09332513575540442139294636 .20 .1044434541 -1.27245035
34059 34060 Run Pt. 35002 35003 35004 35007 35008 35009 35011 35012 35014 35015 35016 35017 35016 35017 35018 35019 35020 35021 35022 35023 35024 35025 35024 35025 35025 35026	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.516 58.233 58.232 58.230 58.230 58.220 58.217 58.217 58.217 58.219 58.217 58.219 58.209 51.089 51.089 51.089 51.089 43.816 43.816 43.816 43.812 37.217	140.600 141.265 Tempersture K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.372 112.554 112.372 112.554 113.018 113.079 111.181 111.420 111.799 112.152 112.329 112.529 112.529 112.529 112.529 112.529 112.5561 111.283	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.4447 16.4375 16.4375 16.4375 16.4375 16.4375 16.4252 16.4252 16.4252 16.4252 16.4252 16.4363 16.3934 16.3934 16.3895 16.3600 16.3528 16.3491 16.3491 16.3219	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .57617 .71263 .78647 .86435 .57617 .845456 .57598 .71248 .78636 .8646 .57598 .71248 .78636 .8646 .57718 .78636 .8646 .78636	.18931 .18899 Experimental Thermal Conductivity W/m·K .22052 .22068 .22068 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21814 .21771 .21787 .21772 .21744 .21617 .21611 .21600 .21605 .21256 .21467 .21401 .21427 .21389 .21191	.006 .004 .004 .018 .012 .010 .007 .007 .005 .007 .008 .007 .009 .009 .009 .009 .009 .009 .009	.18914 .18863 Ad Justed Thermai at a nomina; Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21489 .21402 .21418 .21358 .21231	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 .20 .10 44 43 45 41 41 43 45 41
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35010 35011 35012 35013 35014 35015 35017 35018 35017 35018 35019 35022 35022 35023 35024 35025 35027 35028	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.518 58.233 58.230 58.220 58.220 58.227 58.217 58.217 58.217 58.217 58.217 58.217 58.209 51.089 51.089 51.087 51.089 43.816 43.816 43.816 43.816 43.812 37.217	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 112.372 112.354 112.372 112.554 112.810 113.018 113.018 113.018 113.279 111.181 111.420 111.799 112.152 112.329 112.530 111.249 111.2561 111.269 111.279	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.48750 16.4541 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.3969 16.3969 16.3600 16.3528 16.3610 16.3528 16.3419 16.3219 16.3162	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248 .78636 .86416 .34816 .45526 .57718 .71369 .86587 .34810 .45475	.18 931 .18 899 Experimental Thermal Conductivity W/m.K .22 052 .22 058 .22 006 .22 019 .22 039 .21 792 .21 788 .21 815 .21 796 .21 842 .21 771 .21 777 .21 7	.006 .004 .004 .018 .012 .010 .007 .007 .011 .009 .006 .005 .006 .026 .019 .007 .006 .026 .019 .007 .006 .026 .019 .007	.18914 .18863 Adjusted Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21402 .21418 .21374	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 .20 .10 44 43 45 41 -1.27 43 45 41
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35010 35011 35012 35012 35014 35015 35016 35017 35018 35019 35020 35021 35022 35023 35023 35024 35025 35026 35027 35028 35029	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.227 58.217 57.218 57.21	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.279 111.181 111.420 111.799 112.152 112.329 112.530 111.249 111.609 111.974 112.165 112.561 111.283 111.566 111.854	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.48400 16.4750 16.4541 16.4451 16.4375 16.4375 16.43202 16.4252 16.4202 16.4252 16.4202 16.4111 16.4037 16.3969 16.3895 16.3671 16.3601 16.3611 16.3219 16.3490 16.3211 16.3219	.94347 1.14450 Power W/m .45484 .57629 .71203 .78691 .86492 .34796 .45476 .71263 .78647 .71263 .78647 .71263 .786435 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248 .78636 .86416 .34816 .34816 .45526 .577718 .71369 .86587 .34810 .45475 .57624	.18 931 .18 899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21842 .21771 .21777 .21777 .21777 .21777 .21777 .21777 .21611 .21600 .21605 .21256 .21467 .21427 .21389 .21391 .21350 .21331	.006 .004 .004 .018 .012 .010 .007 .007 .025 .011 .009 .008 .005 .004 .026 .013 .009 .026 .016 .013	.18914 .18863 Ad Justed Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21489 .21402 .21418 .21374 .21339	.42 .45 Conductivity deviation from correlation percent 19 09332513575540442139294636 .20 .1044434541 -1.272450354871 .08 .03
34059 34060 Run Pt. 35002 35003 35005 35006 35007 35010 35011 35012 35013 35014 35015 35016 35017 35018 35019 35021 35022 35023 35024 35027 35028 35029 35029 35029	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.217 58.217 58.217 58.219 58.217 57.217 57.217 57.217 57.227 57.227 57.227 57.227 57.227 57.227 57.227 57.227 57.227 57.227 57.227 57.227	140.600 141.265 Tempersture K 111.560 111.859 112.251 112.467 112.737 111.160 111.555 112.372 112.554 112.810 113.279 111.181 111.420 113.279 112.152 112.329 112.152 112.329 112.155 112.329 112.152 112.329 112.152 112.329 112.152 112.329 112.1530 111.249 111.609 111.799 112.155 112.329 112.530 111.249 111.609 111.799 112.155 112.530 111.249 111.609 111.790	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.48750 16.4541 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.3969 16.3969 16.3600 16.3528 16.3610 16.3528 16.3419 16.3219 16.3162	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .71263 .78647 .86457 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248 .78636 .86416 .45526 .57718 .71369 .86587 .34810 .45475 .57624 .865512	.18 931 .18 899 Experimental Thermal Conductivity W/m.K .22 052 .22 058 .22 006 .22 019 .22 039 .21 792 .21 788 .21 815 .21 796 .21 842 .21 771 .21 777 .21 7	.006 .004 .004 .018 .012 .010 .007 .007 .011 .009 .006 .005 .006 .026 .019 .007 .006 .026 .019 .007 .006 .026 .019 .007	.18914 .18863 Ad Justed Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21402 .21418 .21358 .21231 .21374 .21339 .21212	.42 .45 Conductivity deviation from correlation percent 19 09332513575540442139294636 .20 .1044434541 -1.2724503541 -1.272450354871 .08 .0324
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35010 35011 35012 35012 35014 35015 35016 35017 35018 35019 35020 35021 35022 35023 35023 35024 35025 35026 35027 35028 35029	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.217 58.217 58.217 58.219 58.217 57.217 57.217 57.217 57.227 57.227 57.227 57.227 57.227 57.227 57.227 57.227 57.227 57.227 57.227 57.227	140.600 141.265 Tempersture K 111.560 111.859 112.251 112.467 112.737 111.160 111.555 112.372 112.554 112.810 113.279 111.181 111.420 113.279 112.152 112.329 112.152 112.329 112.155 112.329 112.152 112.329 112.152 112.329 112.152 112.329 112.1530 111.249 111.609 111.799 112.155 112.329 112.530 111.249 111.609 111.799 112.155 112.530 111.249 111.609 111.790	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.4437 16.4375 16.4375 16.4292 16.4252 16.3252 16.32	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .71263 .78647 .86457 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248 .78636 .86416 .45526 .57718 .71369 .86587 .34810 .45475 .57624 .865512	.18931 .18899 Experimental Thermal Conductivity W/m·K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21844 .21771 .21787 .21772 .21744 .21617 .21611 .21605 .21256 .21467 .21467 .21427 .21389 .21391 .21350 .21331 .21250	.006 .004 .018 .012 .010 .007 .025 .011 .009 .008 .007 .006 .005 .013 .009 .026 .016 .013 .009 .027 .018	.18914 .18863 Ad Justed Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21402 .21418 .21358 .21231 .21374 .21339 .21212	.42 .45 Conductivity deviation from correlation percent 19 09332513575540442139294636 .20 .1044434541 -1.272450354871 .08 .03
34059 34060 Run Pt. 35002 35003 35004 35007 35010 35011 35012 35013 35014 35015 35016 35017 35018 35019 35020 35021 35022 35023 35024 35025 35026 35027 35028 35029 35030 35031	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.516 65.516 58.233 58.230 58.230 58.230 58.220 58.217 58.217 58.217 58.219 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.217 58.220 58.217 57.217 57.22	140.600 141.265 Tempersture K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.279 111.181 111.420 111.799 112.152 112.329 112.5561 111.249 111.609 111.974 112.166 111.283 111.566 111.283 111.566 111.284	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.44417 16.4375 16.4375 16.4375 16.4375 16.4375 16.4252 16.4252 16.4252 16.4252 16.4252 16.4252 16.4363 16.3934 16.3934 16.3895 16.3600 16.3528 16.3600 16.3219 16.3104 16.3219 16.3104 16.3219 16.3104 16.32934 16.3016	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .80435 .57617 .1219 .34792 .45456 .57598 .71248 .78636 .86416 .34816 .45526 .57718 .71369 .86587 .71369 .86587 .71369 .86587 .71369	.18931 .18899 Experimental Thermal Conductivity W/m·K .22052 .22068 .22068 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21814 .21771 .21787 .21772 .21744 .21617 .21611 .21600 .21605 .21256 .21467 .21401 .21427 .21389 .21191 .21350 .21331 .21250 .21238	.006 .004 .018 .012 .010 .007 .007 .005 .007 .008 .007 .008 .009 .013 .009 .013 .009 .013 .009 .016 .013 .007	.18914 .18863 Ad Justed Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21499 .21402 .21418 .21374 .21358 .21231 .21374 .21399 .21212 .21222	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 .20 .10 44 43 45 41 -1.27 24 50 35 41
34059 34060 Run Pt. 35002 35003 35004 35005 35006 35007 35010 35011 35012 35013 35014 35015 35017 35018 35019 35020 35021 35022 35023 35024 35025 35026 35027 35028 35029 35020 35030 35030 35030 35030 35030 35030 35030	2.604 2.610 Pressure MPa 65.496 65.500 65.516 65.518 58.233 58.230 58.220 58.220 58.220 58.227 58.217 58.217 58.217 58.217 58.219 51.089 51.089 51.089 43.816 43.816 43.816 43.816 43.816 43.816 43.816 43.816 43.816 43.812 37.225 37.229 37.242 29.922	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 112.155 112.372 112.554 112.810 113.018 113.018 113.018 113.279 111.181 111.420 111.799 112.155 112.329 112.530 111.249 111.609 111.974 112.165 112.294 111.566 111.854 112.700 112.294 111.342	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4800 16.4750 16.4541 16.4340 16.4292 16.4252 16.4252 16.4252 16.4252 16.4252 16.4252 16.4350 16.3959 16.3959 16.3600 16.3600 16.3600 16.3610 16.3219 16.3104 16.3219 16.3104 16.2934	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .455478 .57617 .71263 .78647 .86435 .94595 1.03146 1.12119 .34792 .45456 .57598 .71248 .78636 .866416 .34816 .45526 .577718 .71369 .86587 .34810 .45475 .57624 .865512 .71321 .34831	.18 931 .18 899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21814 .21771 .21787 .21772 .21744 .21617 .21617 .21611 .21600 .21605 .21256 .21467 .21401 .21427 .21350 .21350 .21350 .21350 .21350 .21350 .21238 .21125	.006 .004 .004 .018 .012 .010 .007 .025 .011 .009 .008 .005 .006 .026 .016 .026 .016 .026 .016 .027 .0013 .009 .007	.18914 .18863 Ad Justed Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21402 .21408 .21402 .21418 .21374 .21339 .21212 .21222 .21161	.42 .45 Conductivity deviation from correlation percent 19 09 33 25 13 57 55 40 44 21 39 29 46 36 .20 .10 44 43 45 41 -1.27 44 43 45 41
34059 34060 Run Pt. 35002 35003 35006 35007 35010 35011 35012 35012 35014 35015 35016 35017 35018 35019 35020 35021 35022 35023 35023 35024 35025 35027 35028 35029 35030 35031 35032 35032 35033	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.227 58.217 58.229 51.08	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.279 111.181 111.420 111.799 112.152 112.329 112.530 111.249 111.601	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.48400 16.4541 16.4454 16.4541 16.4375 16.4375 16.4302 16.4252 16.4202 16.4252 16.4202 16.4111 16.4037 16.3969 16.3969 16.3895 16.3671 16.3611 16.3219 16.3219 16.3219 16.3162 16.3219 16.3219	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .94555 .57598 .71248 .78636 .86416 .34816 .45576 .86512 .71321 .45509	.18 931 .18 899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21842 .21771 .21777 .21777 .21777 .21777 .21777 .21611 .21600 .21605 .21256 .21467 .21401 .21427 .21389 .21391 .21350 .21331 .21250 .21238 .21125 .21125	.006 .004 .004 .018 .012 .010 .007 .007 .007 .008 .009 .008 .013 .009 .007 .013 .009 .013 .009 .013 .009 .013 .009	.18914 .18863 Ad Justed Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21489 .21489 .21489 .21489 .21489 .21418 .21374 .21339 .21212 .2122 .2122 .21161 .21178	.42 .45 Conductivity deviation from correlation percent 1909332513575540442139294636 .20 .1044434541 -1.272450354871 .08 .03243502 .17
34059 34060 Run Pt. 35002 35003 35006 35007 35008 35010 35011 35012 35013 35014 35015 35016 35017 35018 35019 35021 35021 35022 35023 35021 35025 35027 35028 35029 35029 35030 35031 35032 35033 35033 35033 35033	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.217 51.089 51	140.600 141.265 Tempersture K 111.560 111.859 112.251 112.467 112.737 111.160 111.555 112.372 112.554 112.810 113.279 111.181 111.420 113.279 11.181 111.420 112.530 111.249 111.609 111.974 112.152 112.3283 111.566 111.8834 112.700 112.294 111.854 112.49	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4360 16.3934 16.3671 16.3671 16.3671 16.3671 16.3671 16.3671 16.3671 16.3671 16.3671 16.3693 16.3671 16.3693 16.3693 16.3693 16.3693 16.3693 16.3934 16.3934 16.3934 16.3934 16.3934 16.3934 16.3934 16.3934 16.3934	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .771263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71369 .71369 .71369 .86512 .71369 .86512 .71321 .34810 .57639	.18 931 .18 899 Experimental Thermal Conductivity W/m·K .22052 .22068 .22006 .22019 .22039 .21792 .21786 .21845 .21796 .21842 .21797 .21777 .21744 .21617 .21611 .21605 .21256 .21467 .21407 .21427 .21389 .21156 .21427 .21389 .21150 .21238 .21250 .21238 .21250 .21238 .21250 .21238 .21250 .212156 .21111	.006 .004 .018 .012 .010 .007 .025 .011 .009 .008 .007 .006 .005 .013 .009 .027 .016 .016 .027 .018 .019 .007	.18914 .18863 Ad Justed Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21402 .21418 .21358 .21231 .21374 .21339 .21212 .21222 .21161 .21178 .21121	.42 .45 Conductivity deviation from correlation percent 19 09332513575540442139294636 .20 .1044434541 -1.2724503541 -1.272450354871 .08 .03243502
34059 34060 Run Pt. 35002 35003 35006 35006 35007 35010 35011 35012 35013 35014 35015 35016 35017 35018 35019 35020 35021 35023 35024 35025 35027 35028 35027 35028 35027 35030 35031 35032 35031 35032 35033 35034 35034 35035	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.227 58.217 58.229 51.08	140.600 141.265 Temperature K 111.560 111.859 112.251 112.467 112.737 111.160 111.505 111.810 112.155 112.372 112.554 112.810 113.018 113.279 111.181 111.420 111.799 112.152 112.329 112.530 111.249 111.601	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.48400 16.4541 16.4454 16.4541 16.4375 16.4375 16.4302 16.4252 16.4202 16.4252 16.4202 16.4111 16.4037 16.3969 16.3969 16.3895 16.3671 16.3611 16.3219 16.3219 16.3219 16.3162 16.3219 16.3219	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .57617 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .94555 .57598 .71248 .78636 .86416 .34816 .45576 .86512 .71321 .45509	.18 931 .18 899 Experimental Thermal Conductivity W/m.K .22052 .22068 .22006 .22019 .22039 .21792 .21788 .21815 .21796 .21842 .21798 .21842 .21771 .21777 .21777 .21777 .21777 .21777 .21611 .21600 .21605 .21256 .21467 .21401 .21427 .21389 .21391 .21350 .21331 .21250 .21238 .21125 .21125	.006 .004 .004 .018 .012 .010 .007 .007 .007 .008 .009 .008 .013 .009 .007 .013 .009 .013 .009 .013 .009 .013 .009	.18914 .18863 Ad Justed Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21489 .21489 .21489 .21489 .21489 .21418 .21374 .21339 .21212 .2122 .2122 .21161 .21178	.42 .45 Conductivity deviation from correlation percent19 09 33 25 13 57 55 40 44 21 39 29 46 36 20 10 44 43 45 41 -1-27 50 35 41 -1-27 55 41 -1-27 24 55 41 -1-27 24 55 41
34059 34060 Run Pt. 35002 35003 35006 35007 35008 35010 35011 35012 35013 35014 35015 35016 35017 35018 35019 35021 35022 35023 35022 35023 35027 35028 35029 35029 35030 35031 35032 35033 35033 35033 35033	2.604 2.610 Pressure MPa 65.496 65.500 65.518 58.233 58.230 58.220 58.220 58.217 51.089 51	140.600 141.265 Tempersture K 111.560 111.859 112.251 112.467 112.737 111.160 111.555 112.372 112.554 112.810 113.279 111.181 111.420 113.279 11.181 111.420 112.530 111.249 111.609 111.974 112.152 112.3283 111.566 111.8834 112.700 112.294 111.854 112.49	15.3908 15.3757 Density moi/L 16.4969 16.4913 16.4840 16.4750 16.4541 16.4375 16.4375 16.4375 16.4375 16.4375 16.4375 16.4360 16.3934 16.3671 16.3671 16.3671 16.3671 16.3671 16.3671 16.3671 16.3671 16.3671 16.3693 16.3671 16.3693 16.3693 16.3693 16.3693 16.3693 16.3934 16.3934 16.3934 16.3934 16.3934 16.3934 16.3934 16.3934 16.3934	.94347 1.14450 Power W/m .45484 .57629 .71290 .78691 .86492 .34796 .45478 .771263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71263 .78647 .71369 .71369 .71369 .86512 .71369 .86512 .71321 .34810 .57639	.18 931 .18 899 Experimental Thermal Conductivity W/m·K .22052 .22068 .22006 .22019 .22039 .21792 .21786 .21845 .21796 .21842 .21797 .21777 .21744 .21617 .21611 .21605 .21256 .21467 .21407 .21427 .21389 .21156 .21427 .21389 .21150 .21238 .21250 .21238 .21250 .21238 .21250 .21238 .21250 .212156 .21111	.006 .004 .018 .012 .010 .007 .025 .011 .009 .008 .007 .006 .005 .013 .009 .027 .016 .016 .027 .018 .019 .007	.18914 .18863 Ad Justed Thermai at a nominai Temperature of 112 K W/m.K .22077 .22076 .21992 .21997 .21840 .21816 .21826 .21787 .21821 .21767 .21769 .21714 .21716 .21818 .21777 .21628 .21603 .21582 .21576 .21298 .21489 .21402 .21418 .21358 .21231 .21374 .21339 .21212 .21222 .21161 .21178 .21121	.42 .45 Conductivity deviation from correlation percent 19 09332513575540442139294636 .20 .1044434541 -1.2724503541 -1.272450354871 .08 .03243502

35037	29.949	112.732	16.2409	.86560	.21053	.007	.21014	16
35039	23.069	111.133	16.2234	.34796	.20982	.023	.21029	. 25
35040	23.078	111.441	16.2170	.45494	.20875	.018	.20905	22
35041	23.085	111.923	16.2069	.57696	.20900	.012	.20904	03
35042	23.095	112.307	16.1989	.71384	.20913	.008	.20897	•09
			16.1905				.20855	
35043	23.100	112.708		.86587	.20892	•006		•05
35044	15.502	111.205	16.1638	.34820	.20671	.024	•20713	11
35045	15.506	111.565	16.1560	.45514	•20628	•016	•20651	26
35046	15.512	111.921	16.1484	•57703	.20719	.012	.20723	.23
35047	15.516	112.184	16.1427	.71331	.20634	•009	.20624	24
35048	15.520	112.720	16.1312	.86567	.20673	•006	•20636	.14
35049	8.380	111.246	16.1054	.34831	.20376	.025	.20415	43
35050	8.383	111.550	16.0987	.45524	.20440	.017	.20463	07
35051	8.383	111.886	16.0913	.57688	.20465	.011	.20471	
35052	8.386	112.305	16.0821	.71365	.20466	.009	.20450	•11
35053	8.388	112.489	16.0780	.78756	.20447	.008	.20422	.13
35054	8.391	112.756	16.0721	.86595	.20452	.006	.20413	. 20
35055	2.388	111.128	16.0576	.34812	.20356	.025	-20401	. 42
3 50 56	2.394	111.535	16.0484	.45518	.20252	•017	.20276	02
35057	2.394	111.915	16.0398	.57712	.20239	.012	.20243	01
35058	2.394	112.280	16.0316	.71371	. 20239	•009	.20225	.05
3 50 5 9	2.396	112.461	16.0275	.78764	.20280	.007	.20257	.29
35060	2.404	112.709	16.0219	.86595	.20242	.007	.20206	.15

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5. AUTHOR(S)			
H. M. Roder			
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		apitalize only proper names; and se	
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